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No. 5

EPIDEMIC INFLUENZA.

PREVALENCE IN THE UNITED STATES.

Reports from State health officers for the week ended January 25, 1919, indicate that the number of reported cases of influenza decreased generally throughout the country as compared with the preceding week. (See p. 193.)

Alabama, Illinois, New Jersey, and Virginia reported slight increases in the number of cases, but the following-named States reported fewer cases than during the preceding week: Arkansas, California, Connecticut, Florida, Indiana, Iowa, Kansas, Louisiana, Maine, North Carolina, Ohio, Oregon, Vermont, and Washington.

Reports from the zones surrounding Army camps also show a slight general decrease in the number of cases of influenza reported. (See p. 198.)

A Comparison of the Mortality Rates by Weeks During the Influenza Epidemic of 1889-90 and During the Primary Stage of the Influenza Epidemic of 1918 in 12 Cities in the United States.

A partial comparison of the influenza epidemic of 1889-90 with the present epidemic with respect to mortality may be made from statistics of the former epidemic in certain cities as given in a treatise by Dr. Samuel W. Abbott, late secretary of the Massachusetts State Board of Health, and from preliminary statistics for the same cities as published by the Bureau of the Census in its Weekly Health Index.

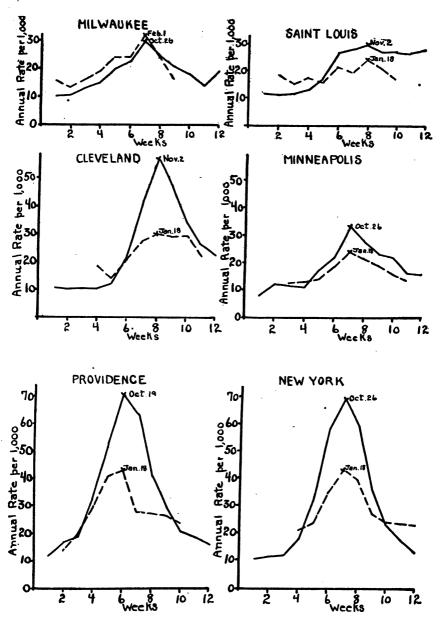
In the paper cited above, Dr. Abbott gives statistics of deaths from all causes and from "respiratory diseases." The Bureau of the Census' Weekly Health Index gives deaths from all causes and from influenza and pneumonia (all forms). Since deaths from respiratory diseases are not directly comparable with deaths from influenza and pneumonia, comparison of the mortality during the two epidemics must be based on deaths from all causes. It appears, moreover, from comparing mortality from all causes with mortality

¹ Abbott, Samuel W., M. D., secretary of the Board (of Health of Massachusetts): The Influenza Epidemic of 1889-9). Twenty-first Annual Report of the State Board of Health of Massachusetts (Public Doc. No. 34), 1990, pp. 307-384.

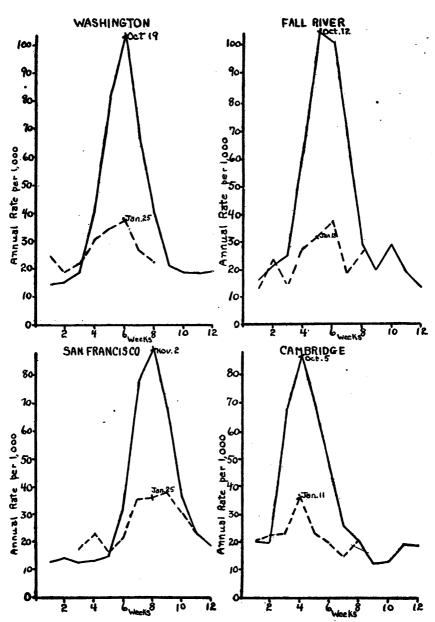
from respiratory diseases during the 1889-90 epidemic, that the mortality from all causes affords a very true picture of the mortality rates as affected by the epidemic. The same may be said of mortality from all causes during the primary stage of the epidemic of 1918 when it is compared with mortality from influenza and pneumonia. The annual mortality rate by weeks from all causes has been employed, therefore, as the basis for the comparison that is presented here.

It will doubtless be realized that the rates for the two epidemic periods are not as comparable as might be desired. The statistics for 1889-90 are probably less complete than those for 1918, for the reason that the reporting and recording of deaths is more accurately and completely done now than 30 years ago. The base line for the epidemic of 1889-90 is higher than that of 1918 because of a higher normal or usual death rate, and, unfortunately, sufficient data are not immediately available for correcting this difference statistically. The statistics of the 1918 epidemic are not strictly comparable with those of the 1889-90 epidemic for the reason that only the primary stage or wave of the 1918 epidemic is represented and mortality during the recrudescences that have occurred, and that may occur, is not brought into consideration. For these and probably other reasons, the statistics can not be utilized with any great degree of refinement and are useful in affording only a very general comparison of the two epidemics.

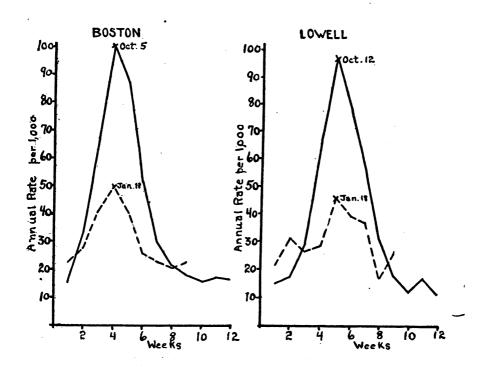
In Tables I and II are shown the annual mortality rate from all causes by weeks for the periods December 15, 1889-February 15, 1890, and September 8-November 30, 1918. In Table III the same figures are presented, but according to a different arrangement: In order to compare the course of the two epidemics, the "peak" weeks (or weeks in which the highest mortality occurred) in the two epidemics are placed together. It was found that this method afforded a fairly clear basis for comparison except in two instances—San Francisco and Fall River—where the curves were fitted together instead. In figure 1 the mortality rates as arranged in Table III have been plotted for each of the 12 cities and for the 12 cities as a single population group, the same scale being used for all of the graphs.

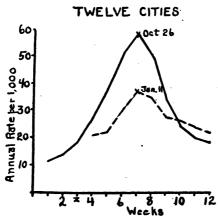


Influenza epidemics 1889-90 (broken line) and 1918 continuous line). Annual death rate per 1,000 population from all causes, by weeks.



Influenza epidemios 1869-90 (broken line) and 1915 (continuous line). Annual death rate per 1,000 population from all causes, by weeks.





Influenza epidemics 1899-90 (broken line) and 1918 (continuous line). Annual death rate per 1,000 population from all causes, by weeks.

Table I.—Influenza Epidemic of 1889-90.

Annual death rate per 1,000 population from all causes, by weeks, during the period Dec. 15, 1889, to Feb. 15, 1890, compared for 12 cities. 1

au.		Annual d	eath rate	per 1,000	from all c	auses for t	the week	ending	٠.
City.	Dec. 21.	Dec. 28.	Jan. 4.	Jan. 11.	Jan. 18.	Jan. 25.	Feb. 1.	Feb. 8.	Feb. 15.
Milwaukee St. Louis Cleveland Minneapolis Providence New York Washington Fall River San Francisco Cambridge Boston Lowell	20. 7 24. 0 12. 6	13. 2 14. 6 14. 0 12. 4 18. 9 22. 3 18. 3 22. 4 22. 4 22. 3 27. 0 80. 9	15. 6 17. 3 20. 1 13. 6 28. 4 34. 7 21. 5 13. 4 16. 4 22. 2	18. 3 15. 0 26. 9 18. 0 39. 8 42. 5 29. 8 26. 6 21. 6 35. 7 48. 3 28. 2	23. 7 20. 1 29. 7 23. 5 41. 8 36. 1 33. 9 34. 7 24. 1 45. 6	23. 2 18. 9 28. 7 21. 5 27. 2 27. 1 36. 4 35. 8 35. 0 19. 4 24. 9 38. 9	30. 6 23. 2 28. 7 18. 7 27. 2 23. 9 25. 8 18. 3 37. 3 14. 9 22. 3 36. 9	23. 2 19. 9 21. 9 15. 5 25. 7 23. 5 21. 7 25. 9 30. 0 20. 1 19. 7 17. 4	16. 0 15. 9 13. 3 22. 8 22. 7 23. 0 22. 3 26. 8

¹ The statistics for deaths are from the Twenty-first Annual Report of the Board of Health of Massachusetts (loc. cit.), pp. 380-381, and the rates are computed upon the basis of the census population of 1890. Where no figures appear for any week the data are not available.

² For eight cities.

Table II.—Influenza Epidemic of 1918.

Annual death rate per 1,000 population from all causes, by weeks, during the period Sept. 8 to Nov. 30, 1918, compared for 12 cities.

		Annua	l death	rate p	er 1,00	0 from	all ca	uses fo	r the w	veek er	nding-	-
City.	Sept.	Sept.	Sept. 28.	Oct. 5.	Oct. 12.	Oct. 19.	Oct. 26.	Nov. 2.	Nov. 9.	Nov. 16.	Nov. 23.	Nov. 30.
Milwaukee St. Louis Cleveland Minneapolis Providence New York Washington Fall River San Francisco. Cambridge Boston Lowell	10, 2 7, 6 11, 3 11, 1 14, 0 15, 4 12, 7 19, 7 14, 5 14, 8	10. 4 10. 8 9. 5 11. 9 16. 6 11. 5 14. 4 20. 3 14. 1 19. 2 32. 6 17. 2	12.3 11.7 10.1 11.9 18.0 12.1 18.5 24.4 12.7 65.5 65.8 28.7	13. 8 12. 4 10. 1 11. 4 31. 5 17. 9 39. 7 60. 2 13. 2 85. 2 98. 0 65. 4	19. 3 15. 7 12. 1 17. 0 51. 7 33. 1 79. 7 101. 6 14. 4 68. 0 85. 4 94. 1	22. 4 25. 4 21. 4 21. 6 68. 9 56. 6 100. 5 98. 0 31. 3 46. 8 50. 6 76. 5	29. 1 27. 4 40. 7 32. 2 61. 7 67. 6 65. 6 62. 6 75. 9 24. 8 29. 0 55. 9	23. 9 28. 5 56. 0 27. 6 39. 8 58. 2 39. 2 28. 0 87. 6 19. 6 21. 2 30. 1	20. 9 26. 3 46. 2 22. 8 26. 3 35. 7 20. 9 19. 1 67. 2 12. 6 17. 5 17. 7	17. 8 26. 6 33. 4 21. 9 20. 0 22. 8 18. 3 28. 0 36. 0 13. 1 15. 3 12. 4	14. 3 25. 3 25. 6 15. 9 18. 4 17. 9 18. 0 19. 1 23. 0 18. 7 17. 1 17. 2	19. 3 27. 4 22. 1 15. 1 15. 6 15. 7 18. 5 14. 2 18. 7 16. 0 11. 5
12 cities	11.5	13. 6	17. 5	25.6	36.3	49. 4	55.6	49.0	33. 2	23.3	19. 1	17. 5

¹ The statistics for deaths are from the Weekly Health Index, issued by the Bureau of the Census, and the rates are computed upon the basis of the Bureau of the Census population estimates as of July 1, 1918.

Table III.-Influenza Epidemics of 1889-90 and 1918.

Annual death rate per 1,000 population from all causes, by weeks, compared for 12 cities, the rates being arranged with respect to the week of highest mortality in each epidemic (see Fig. I).

		Week of						Annu	al death	Annual death rate from all causes, by weeks	all cause	s, by we	eks.					
City.	Year.	mortality during the epi-		Weeks prior to week	week of ep	of highest 1 epidemic.	mortali	mortality during	the	Week of highest mortality	Weeks	Weeks subsequent to week	int to w	'eek of l	ighest n iic.	ortality	of highest mortality during the epi-	-jde et;
		(week	Seventh.	Sixth.	Fifth. 1	Fourth.	Third.	Second.	First.	during the epi- demic.	First.	Second.	Third. Fourth.	Fourth.	Fifth.	Sixth.	Seventh.	Elghth.
Milwaukee 18	 	Feb. 1		15.0	13.2	15.6	18.3	83.5	8.8	80 9 0	88	16.0	1.					
St. Louis 18				17.5	14.6	17.3	15.0	8	18.0	ន់ន	100	15.9	0 :0	2	0.61			
Cleveland 18				0 1	=	100	14.0	38	26.9	36.	28.5	28.5	25.5	27.4				
Minnespolis 18			10.2	G .	10.1	120	122	13.6	18.0	888	8 2 2 2 2 3	18.7	15.6	13.3				
Providence 18				9.	B : 6	3.8	18.9	2.83	38:3	4.5	9 67	× co	25.2	22.55	15.1			
New York					0 =	0 0	185	- R	25.3	42.5 5.5 5.5 6.5 7.5 6.5 7.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8	36.1	27.5	, o o	: : : : :	₹8; 4.7.1	15.6		
Washington					22	18.3	22.5	388	388	8.5		32.5	8.77	F. 9	7 0	9		
:	1889-90 1918	Jan. 18 Oct. 12				12.6	2,8	2.2	88	10.0	8.00	18.29	388	19.1	28.0	19.1	14.2	
:			12.7	14.1	17.1	13.5	16.4	32.6	75.9	35.0 87.6	37.3	30.0	88	18.4				
Cambridge 10							19.4	19.3	8.23	35.7	8.8	19.4	14.0	8.5	19.6	13.	7 %1	18.7
:							14.5	32.0	40.5 65.8	48 98.3	85.1 40.1	20.00	28.3	19.7	122	15.3	17.1	16.0
Lowell	1918					14.8	30.9	8 8 8	8.38 4.28	45.6 94.1	38.9	36.9 55.9	17.4 30.1	26.8	12.4	17.2	11.5	
12 cities	1889-90 1918	Jan. 11 Oct. 26		11.5	13.6	17.5	19. 5 25. 6	36.3	29. 1 49. 4	35. 4.55. 8.55.	83.6 69.0	27.0 33.2	25.1 23.3	22.7 19.1	21.3			

¹ See footnotes on Tables I and II.

These statistics, although obviously not as complete as may be desired, indicate that:

- 1. The mortality rate rose to a much higher point during the primary wave of the 1918 epidemic than in the epidemic of 1889-90 in 9 of the 12 cities. It is of interest to note that the rate was relatively low during both epidemic periods in St. Louis, Milwaukee, and Minneapolis. If the mortality during the 8 weeks of highest mortality be compared for the two epidemic periods in the twelve cities, considered as a single population group, it is seen that the annual mortality rate during the period December 15, 1889, to February 8, 1890, was 26.7, as against 35.2 for the period September 29 to November 23, 1918. In the peak week the rate rose to 55.6 in the 1918 epidemic as compared with 35.4 in the 1889-90 epidemic.
- 2. While considerable irregularity in the curves as plotted in figure 1 is evident, the curves of the two epidemics manifest, on the whole, quite a striking similarity for the same cities considered individually and as a whole. The length of the primary stage or wave—aside from recrudescences or continuance of relatively high, but not truly epidemic mortality rates—was quite similar for the two epidemics in all of the cities.

"PATENT MEDICINES"—DISCLOSURE OF INGREDIENTS.

REGULATION REQUIRING DISCLOSURE OF INGREDIENTS OF PROPRIETARY MEDI-CINES HELD INVALID BY NEW YORK COURT, BUT CAPABLE OF AMENDMENT SO AS TO MAKE IT VALID.

That portion of the sanitary code adopted by the board of health of the city of New York, which requires the names of the ingredients of patent or proprietary medicines to be registered in the department of health before such medicines can be sold, has been declared invalid by the New York Court of Appeals.¹

When the ordinance went into effect, the plaintiff, a concern engaged in the importation and sale of proprietary and patent medicines, had in stock large quantities of drugs, the ingredients of which it did not know and could not ascertain. The ordinance did not except such merchandise from its operation, and the plaintiff contended that it was void, because in effect an absolute prohibition was laid upon the sale of its existing stock. This contention the court of appeals sustained. In the opinion the court said:

The argument is made that the ordinance is an arbitrary exercise of the power of government. We do not think so. Its purpose and effect are well within the limits of the police power. The purpose is the preservation of the public health and safety.

* * * The form of protection is publicity. * * * The public health is safeguarded by disclosure to public officers charged by law with its protection. * * * *

One other objection to the ordinance is yet to be considered. We think it points to

[!] E. Fougera & Co., Inc., s. City of New York et al., 120 N. E. 642.

a real defect, though one that amendment may correct. The ordinance does not except existing stores of merchandise in the hands of druggists or other dealers, who do not know the ingredients and can not state them. That is the plaintiff's plight.

* * In effect, therefore, an absolute prohibition is laid upon the sale of its existing stock. * * * Without warning and without fault, its right of property has been forfeited. There must be many others in a like predicament. We do not need to say that there is no power, even in the legislature, to work this forfeiture. * * * The defect is so far-reaching, it is so deeply wrought into the substance of the law, that there is no opportunity to sever the good from the bad. * * * On the ground that the ordinance in its application to merchandise previously acquired fails to save the rights of dealers unable to comply with its requirements, we hold that the board of health has exceeded the powers delegated to it.

ANTIVENEREAL DISEASE NEWS.

The United States Public Health Service, Division of Venereal Disease, is conducting approximately 175 clinics. During the period from November 15 to December 15, 1918, there was a total of 19,456 visits to 29 clinics, or an average daily attendance of 38.1 at each clinic. There were 2,489 new cases, which was an increase of 188 cases over the number of admissions of the preceding month. A total of 25,543 treatments were administered and 11,195 cases were remaining under treatment in the clinics, hospitals, and detention homes on December 15. As a result of 1,845 "follow-up visits" made by the clinic nurses and social workers, there were 1,070 visits to the clinics.

Minnesota has shown good results in her clinics. It is claimed that this is due to extensive social-service work, which involves following up by correspondence as well as by investigation. It has been possible to secure the adherence of incorrigible cases to a routine of precautions, so as to protect others from infection.

Many thousands of letters requesting pamphlets and expressing a desire to assist in the conflict against venereal diseases have been received from various States. Twenty thousand druggists have pledged themselves to refrain from selling nostrums for the treatment of venereal disease. Five thousand pledges not to publish advertisements of quack doctors have been received from newspapers.

THE CURE OF VENEREAL DISEASES.

MESSAGES FROM UNITED STATES SURGEONS GENERAL.

Surgeon General of the United States Public Health Service.

You can not compromise with venereal diseases. Unless cured, syphilis and gonorrhea, or "clap," know only one result—the destruction of the human body. Venereal disease in a person's body

must be driven out—every trace of it. Otherwise it will spread and grow worse, sapping strength, undermining health, and leading to serious physical disability; or, like an enemy under fire, it may retreat from sight, leaving the impression that the body is safe and sound again. Unless completely cured it lurks in the body and may break out again, years later. Such is the deceit and treachery of venereal disease.

Self-treatment with simple or patent remedies will not cure venereal disease. It may cause the outward symptoms to disappear, but to cover up a disease is not to cure it.

The only safe and certain way to a complete cure of venereal disease is treatment by a competent physician. It is necessary to continue the treatment until rigid medical tests show a complete cure. Some of the most serious after-effects of venereal disease are due to stopping treatment too soon.

Self-treatment probably costs less in the beginning, but you are fighting a dangerous enemy, and the weapons must be chosen accordingly. The Allies, armed with populus, could never have defeated Germany. Populus cost less; but the most expensive things in the long run are those which do not give results, and the self-treatment of venereal disease does not give the desired results.

So if you have intended to treat yourself for a venereal disease, or have started to do so—

Stop! Even though you may be improving—stop!—right now! Go to a competent physician or venereal clinic. Avoid quack doctors or medical institutes advertising quick cures. They are far more interested in your pocketbook than in your recovery.

Remember that cheap treatment for a dangerous infectious disease never pays. With health wrecked or only partly restored, the money saved by such treatment can give little pleasure.

Always remember that venereal disease can be cured. But do not forget that neglected or improper treatment may ruin a person's health beyond repair.

Take no chances when attacked by anything so treacherous as a venereal disease.

Rupert Blue, Surgeon General.

Surgeon General of the United States Army.

"Blood remedies that promise to eradicate syphilis should not be relied upon under any conditions, and the same applies to 'sure shots' for gonorrhea, which may stop discharges, but will not cure."—
Surgeon General of the Army.

Surgeon General of the United States Navy. "

"Self-treatment of venereal disease is not permitted in the Navy. All cases must be treated under the direction of a medical officer. No other method would be tolerated."—Surgeon General of the Navy.

SOME ASPECTS OF MALARIA CONTROL THROUGH MOSQUITO ERADICATION.

By C. W. METZ, Special Investigator, United States Public Health Service.

From a sanitary standpoint one of the most striking accompaniments of the recent military activities in this country has been the institution of malaria-control operations on a scale probably never before attempted except on the Isthmus of Panama during the construction of the canal. These operations have been intended primarily to prevent the introduction and spread of malaria in the various newly established cantonments, munition factories, and other places of military importance, but they of necessity also embraced large areas of civilian territory and have affected a vast rural and urban population. In connection with this campaign practically all known antimalaria measures have been used, including quininization, screening, etc., but the great bulk of the work has been devoted to mosquito eradication. Within the actual military areas themselves this work has been conducted principally by the Army Medical Corps. surrounding zones—constituting by far the larger and more menacing territory-however, it has fallen to the lot of the United States Public Health Service, aided by such local health organizations as happened to be available in the respective localities.

To meet the requirements of the sudden exigency, the Public Health Service force engaged in malaria control was, of course, rapidly enlarged and put immediately to work, without the formality of complete standardization of methods and organization that might have been effected had more time been available. As a result the conduct of operations in the various extra-cantoment zones, although based upon the same general principles throughout, has differed somewhat from place to place, so that it is difficult to include all of the methods of procedure in one general statement. Consequently, the following account will be based largely upon the operations with which the writer is personally familiar, and will not attempt to cover all of the modifications of procedure to be found in different regions.

It should also be made clear at this point that the present communication makes no pretence at being a complete discourse on mosquito

¹ It might be added, parenthetically, that a great deal of good has come from this necessity. With many men working along the same lines in differet parts of the country, and each presented with his own local problems, the result has been that numerous innovations, ingenious methods, more efficient tools, etc., have been introduced, greatly to the benefit of the operations as a whole.

control. Details of many phases are entirely omitted, as these are already well known and are accessible in published accounts.

In general the principles of mosquito control used in the extracantonment sanitation have been those used so effectively in the Canal Zone, and described by Le Prince and Orenstein (1916). They consist primarily of drainage and oiling—drainage where the water can be disposed of, and oiling where it must remain. Both of these methods are aimed, of course, at the *Anopheles* larvæ. Little, if any, attempt has been made to combat the adult mosquitoes, since the other methods are found much more effective.

Knowing, with a fair degree of certainity, that malaria transmission is effected only by mosquitoes of the genus Anopheles, and knowing the approximate range of flight of these insects, it remains to eliminate them from a zone around each camp corresponding with the range of flight, namely, 1 to 2 miles. The exact extent of the zone varies somewhat in different places, depending upon the amount of breeding and the exigencies of the work, but as a rule it is intended to cover all prolific breeding areas within 2 miles of habitations occupied by the people to be protected. This includes, in typical extracantonment work, the zone around the cantonment proper and similar zones around the rifle range, remount station, aviation fields, and other auxiliary military areas.

In the region east of the Mississippi, which is the region of primary interest from the present standpoint, there are three species of mosquitoes to be considered as vectors of malaria, Anopheles quadrimaculatus, Anopheles punctipennis, and Anopheles crucians. These species differ strikingly from one another in appearance and in habits, and probably also in their importance as agents of malaria transmission. Regarding the latter point, however, too little is known at the present time to allow of much discrimination, and as a rule all Anopheles are treated alike in control operations. It is well, nevertheless, to keep in mind the principal characteristics of the different species and also the main questions that remain unsettled. This will lead to more intelligent field work and allow more information to be obtained regarding the uncertain points. The main features of interest are as follows:

Anopheles quadrimaculatus.—This species may be distinguished from either of the other two by its relatively hyaline wings, with their four dot-like aggregates of scales. Its larval habits are relatively exact, with a restricted range of adaptability. Like other Anopheles it breeds in natural waters in preference to artificial containers, eaves troughs, etc., although it will occasionally, when hard pressed, breed sparingly in these, too. In general it chooses quiet water, either ponds, swamps, pools, puddles, lakes, or lagoons. Apparently it is very seldom found in running water, although evidence on this

point is not entirely conclusive. It is perhaps the most fastidious of the three species in regard to the character of the water in which it breeds. A small amount of sewage will effectually prevent breeding, as will also relatively small amounts of chemical or other contamination.

As a vector of malaria quadrimaculatus undoubtedly heads the present list; it transmits the malaria plasmodia readily, as has been shown both by practical observations and by laboratory experiments. Not only does it appear to be physiologically well adapted to this rôle, but it has habits of feeding that make it particularly effective. It seems to have an especial fondness for the society of man, and will enter houses to feed more readily than will either of the other two species. Whether it actually prefers human blood to that of domestic animals is not known, but apparently its fondness for man is almost or quite as great as for domestic animals, whereas the other two species exhibit a definite preference for the latter.

Anopheles punctipennis.—In point of numbers and general distribution this species should rank first. It is easily distinguished from the other two by the marginal white or yellowish spot on the heavily scaled wings and by the slender thorax with a pale longitudinal stripe along the dorsum. Its larvæ appear to be indistinguishable from those of quadrimaculatus. Its choice of a breeding place may include any of those mentioned for quadrimaculatus, and in addition streams or ditches of running water, provided, of course, the flow is not so rapid as to destroy the larvæ or prevent breeding. Apparently punctipennis is also somewhat less fastidious about the character of the water in which it breeds, as it seems able to stand more contamination than quadrimaculatus. On this point, however, there is little exact evidence.

Owing, apparently, to the different habits of the adults, punctipennis is generally thought to be less effective as a malaria vector
than quadrimaculatus. It is known to harbor the malaria plasmodia
and allow typical growth and development of the parasites, and also
to transmit malaria under laboratory conditions (Mitzmain, 1916),
but observations by several competent persons in various localities
have led to the impression that in nature it is relatively unimportant
as a vector of malaria.¹

The importance from a practical standpoint of determining the rôle played by punctipennis in malaria transmission may be appreciated by considering the immense amount of money that is being spent on the eradication of punctipennis breeding places in running water alone, practically all of which could be saved if it were certain that the species is not a frequent vector of malaria.

¹ See recent summary by Asst. Surg. Gen. H. R. Carter, Reprint No. 464 from Public Health Reports,

Anopheles crucians.—This species is generally less common than the other two and is found in the most restricted localities, although it may be extremely abundant in suitable places. It is readily distinguished from either of the others by the wing markings, among which may be mentioned especially the apical vellowish or white spot and the three dark bands on the sixth vein. The larvæ of crucians in the later stages may sometimes be distinguished from those of the two others by the palmate dorsal hairs. The distinction may be appreciated by reference to a good figure, such as that in plate 84 of Howard, Dyar, and Knab's "Mosquitoes of North and Central America." It will be observed that the larva of punctipennis or quadrimaculatus has a pair of palmate tufts of hair on the dorsum of each of the third to seventh abdominal segments, and that all of these pairs are of practically the same size. This is characteristic of punctipennis and quadrimaculatus; but in crucians the first and last of these pairs are very small. In other words, crucians has large palmate tufts on the fourth, fifth, and sixth segments only, with small ones on the third and seventh. It should be noted that the posterior pair of tufts is frequently small in any of the species, but so far as the writer has been able to observe the distinction holds for the tufts on the third segment. In breeding habits. likewise, crucians differs rather sharply from the other two species. Although it may sometimes be found in company with either of the latter it is often to be found in brackish waters or waters contaminated with chemicals. In such places, when the contamination is great enough to prevent the breeding of other Anopheles, crucians may sometimes be found in enormous numbers. The writer has recently been studying one such place in which the drain from a chemical factory so contaminated the water that many aquatic organisms, including fish, were killed, and crucians had a clear field. In this swamp crucians were being produced literally by the millions, although not a single punctipennis or quadrimaculatus was obtained out of scores of larvæ and adults examined.

As a vector of malaria crucians is a relatively unknown quantity. Presumably it is an efficient carrier, as suggested by the prevalence of malaria in localities such as that just mentioned where the other species are uncommon and by the fact that it is known to harbor at least one of the malaria parasites (Mitzmain, 1916); but on the other hand crucians resembles punctipennis in its apparent preference for the company of domostic animals rather than that of man. This is another matter requiring further investigation.

¹ Since the above was written it has been found that the distinction does not hold in all localities. In Florida the writer has found crucians larve with large palmate tufts on the third segment. Another distinction, pointed out by Howard, Dyar, and Knab, is based on the fact that quadrimaculatus and punctipennit typically have a small tuft of hairs on the second segment, making six in all, whereas crucians has only five. This criterion, however, is also unreliable, for the tuft on the second segment is frequently absent (as, e. g., in the specimen figured in the plate cited above).

From the foregoing it may be seen that additional evidence is greatly needed regarding certain phases of mosquito control in relation to malaria, and that until this is obtained safety demands the control of all *Anopheles*. In case a selection must be made, however, it appears advisable to control quadrimaculatus first by eliminating breeding in still water, especially grassy puddles and pools.

Turning now to the question of ways and means of control, the salient features may be considered under three headings: Drainage, oiling, and accessory measures.

Drainage.

In drainage we have the most reliable and most permanent control. Where there is no water in which the larvæ may develop there will be no mosquitoes, and when a place is once properly drained it will not become a nuisance again for a considerable period of time. Drainage, then, is the main reliance in mosquito control unless the effort is intended to be only a very temporary expedient. Under drainage, from the present standpoint, are included several features peculiar to mosquito control and perhaps not included under drainage as the engineer would define it. Among these may be mentioned cleaning of ditch banks, removing débris from streams, etc. Drainage may be either of the usual type, or under special circumstances the so-called "vertical drainage." These will be considered separately.

Since all of these measures are aimed at the destruction of Anopheles larvæ, attention should first be directed to the general conditions necessary to bring this about. The methods are simple, but upon the proper choice of methods may depend many lives and thousands of dollars.

Anopheles larvæ will not develop in a locality if-

- 1. The water is completely drained off; or
- 2. The water surface is entirely cleared of vegetation or other obstructions, the banks cleaned and cut down vertically, giving a smooth margin; and
- (a) An abundance of suitable fish made available to keep down the larvæ; or
 - (b) A complete film of oil applied to the entire surface; or
- (c) A swift flow of water set up to carry off the larvæ or prevent their feeding; or
 - 3. The water is treated with an effective larvicide.

Obviously the choice between these methods will vary according to the nature of the place and the degree of permanence desired for the results.

Surface drainage.—In practice one may find himself confronted with any one or all of the following types of areas requiring drainage:

Temporary puddles, stagnant ditches, borrow pits, old wells, cisterns, ponds, lakes, swamps, marshes, streams, lagoons, and bayous. Of these the temporary puddles, unless there are several of them in a locality that may be ditched without much difficulty, can probably be controlled best by the use of oil. Roadside ditches-excellent breeding places as a rule—can usually be ditched without much difficulty and eliminated at once. (See reference to ditching machine at the end of this paper.) Borrow pits are treated according to circumstances. Many are too deep to be drained and must be oiled. Not infrequently they are deep enough down in the sterile earth to be practically devoid of aquatic life and can be ignored, but in this case frequent careful inspections should be made to see that they remain free from larvæ. Old wells, cisterns, and the like may often be filled to advantage, or oiled, or treated with chemicals as described later; it is seldom advisable to attempt drainage. It is when we come to ponds, lakes, and swamps that the real problems arise, and it is best perhaps to consider these three together. Since the difference between lakes and ponds is only one of degree, and since swamps may include either or both of the other two, it is obvious that in actual practice little distinction can be made that would involve different methods of drainage. It is more important to classify such areas according to the sources of water, for in this case the distinctions correlate with modes of treatment. stance, one pond or swamp may be caused by the accumulation of rain water and may fluctuate greatly with the seasons, another may be simply a basin in the channel of a sluggish stream, while a third may be fed from springs and may be bordered by a seepage outcrop. In the first of these, the rain-water swamp, it is merely necessary to provide a small channel to carry off the surplus water left after the main flood waters have passed. As a rule one or two ditches will suffice. In the second case the situation is more difficult, for the water supply is continuous and fluctuating. The swamp will vary in size with high and low water in the stream, and a drainage operation of considerable magnitude may be required to eliminate it. Before determining the method of procedure in such a case it is well to consider the fundamental requirements of mosquito control with a view to selecting the most economical and effective method. case drainage is decided upon it will probably take the form of channeling the stream below the swamp to lower the water and increase the flow.

Otherwise a combination of clearing 1 and oiling will probably prove most effective. The third case mentioned—that of a swamp

¹ Clearing the vegetation from a swamp does not require cutting down the trees, except in very unusual circumstances. There is little support for the popular impression that sunlight will eliminate larvæ. If the water must be oiled after clearing, it may as well be oiled in the shade. This will save the trees and the expense of cutting them, will provide more comfort for the oilers, and will lessen the rapidity of evaporation of the oil. Also it will probably be conducive to better relations with property owners.

fed by a seepage outcrop—presents the most difficult problem of all. Here we have not only an area of standing water, probably full of vegetation, but also a series of tiny puddles in the form of hoof prints, etc., along the outcrop margin. Each of these is a potential breeding place of the worst kind. The treatment of such an area requires a special procedure, and since the proposition is one that is

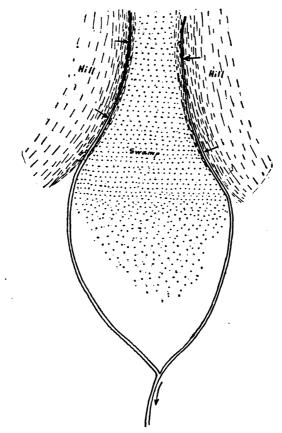


Fig. 1.—Seepage outcrop ditches.

apt to be found in most any locality it may be considered in some detail.

Treatment of seepage outcrops.—Seepage water usually appears on hillsides, etc., at the outcrop of a stratum of water-bearing sand or gravel underlain by an impervious stratum of clay, shale, or other material. The outcrop may be in the nature of more or less distinct springs, or simply a gradual oozing out through the soil. In either case it is fed by a water table below the surface, and treatment must be aimed particularly at this water table. It does not suffice to dig ditches directly away from the springs and down the hillside.

Such a method would require a separate ditch for each spot from which water is issuing, and would mean, in many cases, a series of ditches about 12 inches apart along the whole hillside. The only effectual way of collecting the water in such places is by means of ditches dug at right angles to the flow of the seepage water, or, in other words, across the exposed end of the water table. Such ditches

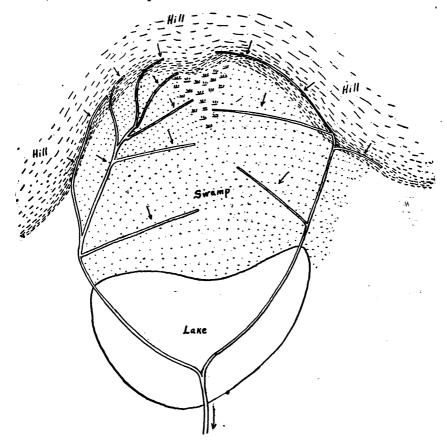


Fig. 2.—Seepage outcrop ditches.

may then be connected to one or more main ditches, if necessary, and the water carried down the hillside parallel to the seepage flow. These points are illustrated roughly in the accompanying sketches of actual swamps.

In No. 1 there was seepage on both sides of a narrow valley, the water coming out of two hills opposite one another, as shown by the arrows. As a result the bottom of the valley in this region was a typical cat-tail swamp with water from 1 inch to 2 feet in depth. Since the source was somewhat up on the hillside, it was useless to dig a ditch through the bottom of the swamp and down the valley. This would simply carry off the deep water and leave the seepy marsh as it was. Instead a deep, narrow ditch was dug along the

margin of each hill just at the upper edge of the seepage outcrop and at right angles to the flow of the seepage water. In this manner the water table was intercepted and all the water that formerly oozed out down the hillside now seeps into the ditch and is carried off. As a result the swamp, no longer fed from the hillside, has dried up.

In case No. 2 a more complicated situation is presented. Here the seepage flow is from a large U-shaped bend in a hillside, resulting in a swamp many acres in extent, with a small lake at the outer edge. The water table in this case extended clear across the swamp, but was concealed along a slight elevation running down the middle. On account of this elevation it was necessary to drain the right and left halves of the swampy area separately. As shown in the sketch a ditch was put along the toe of the hill on each side at the upper margin of the outerop and then run off into the lake. But the water

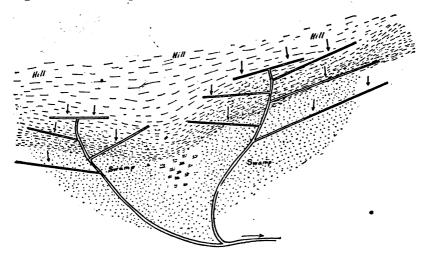


Fig. 3.—Seepage outcrop ditches.

table this time was too deep to be intercepted entirely by one ditch and it was necessary to dig additional intercepting laterals at intervals lower down. On one side five such ditches, more or less parallel to one another and at right angles to the seepage flow, were required to catch all of the water before it came to the surface.

In case No. 3 an outcrop on a relatively steep hillside is represented. Here it was necessary to dig several intercepting laterals parallel to one another and only a few feet apart in order to catch all of the flow. When this was done over the area in which the seepage water was actually coming out of the ground, the remainder of the swamp lower down the hillside became completely dry.

In each of these cases collection of the water depended upon the ditches being constructed primarily as intercepting rather than conducting ditches. In the case of swamp No. 1 the ditches happen to be intercepting and conducting at the same time; but more often

separate conducting ditches must be constructed to carry off the water after it has collected in the intercepting ditches.

With the exception of a few features like these most of the drainage work is largely a matter of running levels and managing labor. Common sense and practice are the main requisites. Here, as in the rest of the work, the habits of the mosquitoes must be kept in mind. For instance, a swiftly running ditch is better than a sluggish one; water confined in a narrow channel will run more swiftly, give less surface and be easier to oil; hence V-shaped ditches are usually preferable to wide-bottomed ones. If the ditch is large and the sides are apt to cave, they should be sloped. Sandy soil caves easily and requires relatively wide ditches. A large ditch, primarily to carry

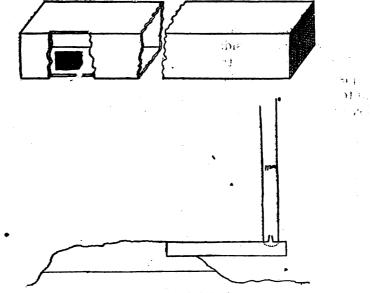


Fig. 4:-Improvised drain head.

flood waters, is apt to transform into a series of shallow puddles in the dry season. An efficient remedy for this is a small V-shaped ditch about the width of a shovel down the middle of the large ditch. It will often eliminate all of the little puddles.

Vertical drainage.—By vertical drainage is meant drainage by means of wells sunk vertically; the purpose being to conduct the water down through relatively impervious soil into water-bearing sand or grayel. Such drainage is usually advisable only where surface drainage is very difficult or expensive. No thoroughly tested rnd standardized method has yet been worked out for this form of drainage, but several types of drains have been used with fair success. Holes are bored near the margin of the water to be drained, and are

sunk down into an underlying water-bearing stratum. The number and size of these holes depends upon the amount of water to be drained, the rapidity with which it must be carried off and the nature of the underlying stratum. If the stratum is near the surface large, open wells may be dug or blasted out and the water carried off rapidly. If it is deep down, holes should be bored with a boring outfit and drain heads installed. Fabricated drain heads may be purchased or improvised drain heads may be made on the spot. One type used by the writer, and found to give satisfaction up to the present time, is made as follows:

An elongated, narrow, culvertlike box is constructed out of rough lumber. One end is closed tightly, and in the bottom near this end a small hole, 2 to 4 inches in diameter, is cut to come directly over the well. The hole should be only one-fourth to one-third the diameter of the well in order that the water may fall into the well without washing the sides. This box is to be laid as a pipe connecting the well with the pond and the bottom of the box should be just level with the bottom of the pond, otherwise the water will fail to flow in, or will flow too rapidly and will wash in a large amount of sediment. At best some sediment will be carried, and to reduce this to a minimum a fine screen, covered with a coarse screen is placed over the end of the box and over the hole leading into the well.

An improvement might be added to this drain head in the shape of a pipe or funnel-shaped conductor suspended vertically into the well from the hole in the box. This would tend to reduce the washing and consequent crumbling of the sides of the hole.

In practice this type of well has been used in clay soil without any lining, but in a softer soil the hole would probably require casing with tile or iron pipe to prevent its caving in.

Oiling.

Next to drainage and as an adjunct to it, oiling is the main reliance in mosquito control. The general principles of this process are well known, but a few features may bear repetition or emphasis in this connection. Since Anopheles seldom develop in less than 8 to 15 days, even in warm weather, it is customary to apply oil about once a week. No definite formula can be given for the oil to be used. Straight kerosene is very effective, for it spreads rapidly and will make a very thin film. But it also evaporates rapidly, and is difficult to see on the water, hence it is usually mixed with so-called crude oil in parts varying from 3:1 to 1:3, depending upon the circumstances and upon the thickness of the crude oil. The most satisfactory mixture is one that is nearly black in color and slightly thicker than

¹ True crude oil is very difficult to obtain; what is usually used is fuel or black oil.

kerosene in consistency. This spreads rapidly and is easily seen on the water. In this connection it should be emphasized that an exceedingly thin film is all that is necessary. This film may be seen by the sheen it gives to the water when viewed in the proper light—a characteristic easily noted after a little practice.

Oil may be applied in various ways. In ordinary work the spray can is the main reliance. The type generally used is some form of knapsack sprayer that can be easily carried and that has an adjustable nozzle. The nozzle should be adjusted to throw a very fine spray, otherwise much of the oil will remain in globules instead of spreading out in a film.

On small streams and ditches with a fairly good current drip cans are used to advantage. Most of those in use are constructed upon the same principle, but in details they are very diverse. A discussion of several types will be found in Le Prince and Orenstein's "Mosquito Control in Pamana." As a rule each worker introduces modifications to suit his own ideas or to suit the material available. A type of can used by the writer is constructed from an ordinary 5 or 10 gallon oil can having a spout near the top. The screw cap of this spout is perforated, and a nail, packed around the basal end with waste, is inserted in the hole. The can is laid on its side with the spout down so that the oil drips out along the nail. By tightening or loosening the latter the flow can be regulated down to a few drops per minute.

Another type of can, reputed to be satisfactory, is composed of an ordinary oil can to which is attached an accurately ground petcock susceptible of accurate adjustment. It is probable, however, that this can exhibits the same tendency as others toward getting clogged up with sediment to such an extent that the flow is inhibited. All types of drip cans known to the writer require inspection every few hours to insure a regular flow.

As a substitute for drip cans oil-soaked waste or bags of oil-soaked sawdust are often used. These are fastened at or near the bottom of the ditch or stream at intervals varying with the size and rate of flow. Oil oozing out of the waste or sawdust comes to the surface, spreads out into a film, and floats down stream. As in the case of drip cans the amount of oil-soaked material necessary and the intervals between the stations depend upon the volume of water, etc., and must be determined for each place separately. A little practice will indicate the proper procedure. All that is necessary is that a continuous film be produced over the entire water surface, throughout the necessary distance, and for a period of at least 12 hours once a week.

Oil-soaked sawdust, in addition to its use as a substitute for drip cans, may be sprinkled over the water surface and thus prove useful as a substitute for other methods of oiling. Its efficiency in instituting rapid control over water areas which have not been cleared of brush or débris is apt to be particularly satisfactory. The value here lies in the fact that the sawdust will often spread the oil film over the surface in spite of the weeds, sticks, grass, or whatever else would have a tendency to break up the film.

Very recently a method of oiling has been proposed by Surg. M. J. White, of the United States Public Health Service, which, when used in conjunction with oil-soaked sawdust, is intended to supplant all other methods. This is described in a circular letter issued by the United States Public Health Service, from which the following extract is taken:

"This method lays down the oil by capillarity. The wick is a piece of jute binder twine. It is common in station waste. pepper can, also found in station waste, has a push lid which protects the oil from rain and is easily removed for subsequent filling of the can. The wick, previously oiled, is brought out the side of the can through a hole near the top made by raising the flap of the tin which also serves to prevent rain from beating in at this hole. A wire loop passed through the side of the can at two opposite points immediately below its lid is tied to a stout strip of wood or stick driven in the middle of the ditch or side of the pool at a sufficient inclination to permit the can to hang free. The can should be hung above the flood-water level and the distal end of the wick allowed to hang free in water, about 2 inches of it being submerged. The proximal end of the wick is anchored within the can by an iron nut. The can is refilled every three or four days, at which time the laborer squeezes or washes out the silt that may have accumulated on the submerged portion of the wick. The flow of the oil varies principally with the length of the wick and velocity of the water. If there are no surface obstructions such as algæ or fallen grasses, this method will supply a continuous film of oil. Fuel oil is used. If such obstructions exist they must be raked away daily so that the oil may spread. This continuous application of a thin film of oil is practiced to prevent For larvicidal purposes the film is collected at points ovinosition. along the ditch by obstructing the surface with strips of wood placed across the ditch. These strips allow the water to pass beneath but arrest the surface oil. The larvæ swim away from the oiling focus and travel in the direction the oil travels. They will go upstream away from the wick if the wind bears the oil in that direction. Having determined the direction the oil will travel the wooden strips are placed from 50 to 100 feet apart. If algæ are present and rapid

work is desired a separate can is provided for each section. The oil accumulates at the wooden strips and as the larvæ, fleeing from the source of the oil, come in contact with this accumulated thick layer of oil, they receive lethal treatment. At first some of the larvæ will pass beneath the wooden strip from one section to another, but they soon succumb. In oiling a pool, cans are placed at selected points along the edges and the wind will drive the oil across. Constant oiling is thus maintained no matter the direction of the wind. A thin film of oil is larvicidal in the course of a day, and the pupæ appear to be less resistant than larvæ. Continuous oiling by capillarity is the method preferred for permanent ground pools and drainage ditches, while the sowing of oil-soaked sawdust is preferred for more or less temporary puddles, wagon tracks, hoofprints, postholes, and other small excavations. These two methods meet the requirements far better than the spray pumps and drip cans. Their use enables the laborers to devote most, of their time to preventing obstructions, particularly algae, that would interfere with the spread of the oil. They also effect substantial economy in the cost of labor, oil, and apparatus.

"The satisfactory use of oil-soaked sawdust is reported in the notes from the marine barracks at Quantico, Va., published in the Naval Sanitation Bulletin of June 14, 1918—Bulletin No. 29."

Accessory Measures.

1. Fish control.—Under suitable conditions fish control appears to be very effective, but it is a method that must be watched with care, for it is dependent upon the ability of the fish to obtain easy access to the larvæ, and anything that interferes with this will interfere with the control.

It goes without saying that it is also dependent upon the presence of the proper kind of fish. In the South these are usually members of the genus *Gambusia*, although other genera are said to be effective also. In case any doubts are entertained as to the best forms available for a given locality definite information may be secured from the Bureau of Fisheries.¹

2. Larricides.—At the present time larvicides are not being used to any great extent, except where they constitute the waste products of chemical factories. Probably the only one in anything like general use is niter cake, an acid by-product resembling slabs of marble in appearance. This is fairly efficient, but of limited usefulness. It is unsuited to running water or ponds that are frequently washed out by freshets. In old wells, abandoned cisterns, etc., it may be used to good advantage in case there is no danger of poisoning persons

or domestic animals. It is said that stock will not drink water containing niter cake, but it would hardly be advisable to expose them to it unnecessarily.

The writer is at the present time experimenting with a combination oil larvicide in the form of creosote oils. This may prove to have some advantages due to the fact that it is more lethal than kerosene and that it may be effective without forming a complete film. In addition to its direct action on the larvæ, it is effective in reducing the larval food supply. The principal features of this method of control, so far as revealed by the preliminary tests, are as follows:

So-called "refined creosote" or commercial creosote, of a dark color and a consistency slightly thicker than that of kerosene, is applied in the form of a fine mist spray. The application differs essentially from that of kerosene or crude oil in that the oil is broken up into minute particles that float in the air like mist. Thus only a very small amount of material is used, as compared with the ordinary method of oiling. For this reason a small hand pump of half a gallon capacity will suffice in place of the usual 5-gallon knapsack sprayer, and a man can carry enough larvicide to last from several hours to a day or more instead of having to replenish his supply several times daily.

The style of pump used in the preliminary tests is of the automatic type that retains compression so as to provide a constant mist spray. It is the sort used for spraying disinfectants. The only essential feature is that a very fine "atomized" spray be secured—a mist that will float in the air.

Such a mist will settle over the surface of the water, into hoofprints, etc., and will float in among plants or other obstructions that may protrude above the surface, provided such obstructions do not form a complete canopy.

A remarkably small quantity of this material will kill Anopheles larvæ if properly applied. Apparently a film of creosote is not essential, as the lethal action is not brought about by suffocation so much as by poisoning, and the fine mist over the surface of the water suffices for this purpose.

For the treatment of small puddles, edges of streams, ponds, etc., and for handling a large territory where bodies of water are scattered and transportation is difficult this method holds considerable promise.

If the initial results stand the test of further trials on a larger scale and the method proves practicable for general use, it is believed that a substantial economy may be obtained in the lessened cost of labor, transportation, and material. The creosote costs from 20 to 30 cents per gallon in bulk, and it is estimated that 1 gallon will do the work of several gallons of oil.

Since creosote is poisonous to fish and other animals, it must be used with caution on water containing fish and on water used by stock. If a pond or stream is more than a few feet wide, fish are not affected by treatment of the edges. In small ditches with good current fish do not seem to be affected unless a large amount of oil is applied, but in small puddles even a light application is very apt to kill them. Owing to the irritating qualities of creosote, it is improbable that stock will drink water containing enough to do harm, but its use is not recommended in such cases except after careful trial.

The irritating effects of creosote are also felt by those who apply it if much is allowed to come in contact with the skin. For this reason, as well as to facilitate spreading the mist over the water, it is best, where possible, to apply it from the windward side.

In conclusion, a word may be said in regard to what might be called the social side of malaria control. The ultimate value of the present activities is going to be in direct proportion to the interest and appreciation that they evoke in the civilian communities. If the work stops with the termination of military activities, its value will have been merely ephemeral. But if, on the other hand, it proves to be the nucleus of an ever-increasing movement, its benefit to the country at large will be incalculable. Hence those conducting antimalaria work in the field should miss no opportunity to make the work a public enterprise, understood by the public, upheld by public sentiment, and brought into the position of a permanent institution in the eyes of the public.

Useful Equipment and Supplies.

- 1. Dynamite.—With the present shortage of labor this is a valuable adjunct to ditching, either for the purpose of removing stumps from ditch lines or for digging the entire ditch. For the latter purpose the 50 or 60 per cent "straight nitroglycerine" dynamite should be used, for it only will explode by-the "propagation method." Full details and demonstrations may be obtained from the leading dynamite manufacturers.
- 2. Ditching machines.—The horse and mule drawn ditching machines have been found very satisfactory for constructing ditches of less than 3-foot depth in open land. They make ideal V-shaped ditches, and in suitable localities may be operated very cheaply. In cleaning out roadside ditches they are particularly effective.
- 3. The phosphate dray.—This tool, somewhat resembling a potato fork, but much more substantial, is invaluable for cleaning out ditches or for working in marshy land that is full of roots, etc. It is so strong that it will last indefinitely even with the hardest usage, and its construction makes it superior to shovels or rakes for work

in soft ground. If not available locally, it may be obtained from wholesale hardware firms.

More specific information regarding the equipment mentioned above, the particular types found most useful, where they may be purchased, etc., may be obtained by addressing the United States Public Health Service, Washington, D. C.

Literature Cited.

- CARTER, H. R. 1918. Effect of Anopheles punctipennis on the natural conveyance of malarial fever. Reprint No. 464, Public Health Reports.
- LE PRINCE and ORENSTEIN. 1916. Mosquito control in Panama. Putnams Sons, New York.
- MITZMAIN, M. B. 1916. Tertian malarial fever, transmission experiments with Anopheles punctipennis. Reprint No. 337, Public Health Reports.
- RADCLIFFE, Lewis. 1915. Fishes destructive to the eggs and larvæ of mosquitoes.

 Economic Circular No. 17. Department of Commerce, Bureau of Fisheries,

 Washington.

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

EXTRA-CANTONMENT ZONES—CASES REPORTED WEEK ENDED JAN. 25.

Cases	CAMP BEAUREGARD ZONE, LA.	1	CAMP DEVENS ZONE, MASS.	
Chicken pox.	Alexandria: Case	es.	_	
A	611011111111111111111111111111111111111			es.
Influenza		-	Ayer	3
Meningitis			Lancaster	1
Meningitis	•		Shirley	5
Mumps		_	Tuberculosis, pulmonary:	
Malaria	•		Ayer	2
Pineumonia	•	- 1		
Previnion 1		- 1	Lancaster	3
Influenza	=	•		
Diphtheria:			CAMP DIX ZONE, N. J.	
Influenza		**	,	
Tilidenza		_	Diphtheria:	
Tuberculosis		7	New Hanover Township	1
Camp Bowie Zone, Tex. Camp Bowis Zone, Tex.		_	Tuberculosis:	
CAMP DONIPHAN ZONE; OKLA. CAMP DONIPHAN ZONE; OKLA.	Influenza	1	Pemberton Township	2
CAMP DONIPHAN ZONE; OKLA. CAMP DONIPHAN ZONE; OKLA.	CAMP BOWIE ZONE, TEX.	- 1	-	
Chicken pox	·		CAMP DONIPHAN ZONE; OKLA,	
Diphtheria		- 1	•	
Conorthea				
Influenza		- 1		_
Influenza	Gonorrhea	1		1
Pneumonie	Influenza	- 1	• • • • • • • • • • • • • • • • • • • •	
Chicken pox: Chic		- 1	CAMP EBERTS ZONE, ARK.	
Charleston Cha	Pneumonia		Oldal and manne	
Scarlet fever. 1 Smallpox	Poliomyelitis	1		_
Scarlet lever	Scabies	6		2
Syphilis 1	Scarlet fever	1		_
Trachoma	Smallpox	1		4
Trachings 3	Syphilis	.1		8
Carlisle	Trachoma	2		4
England 16	Tuberculosis	3	•	-
England, R. F. D. 115	Typhoid fever	1		6
Influenza	THE PROPERTY COME. WHAT	- 1		6
Pneumonia	•	- 1		15
Charleston Sanitary District, s. c. Lonoke, R. F. D. 27 Ward 10				15
Ward 10	Pneumonia	5		6
Charleston: Matria: Influenza. 449 Cabot. 3 Syphilis. 1 Kerr. 1 Tuberculosis. 2 Measles: England, R. F. D. 11	CHARLESTON SANITARY DISTRICT S C	- 1	· · · · · · · · · · · · · · · · · · ·	27
Influenza	CHARLESION SANITARY DISTRICT, A. C.		Ward 1	10
Syphilis 1 Tuberculosis 2 Typhoid fever 1 Measles: England, R. F. D 11	Charleston:	- 1	Malaria:	
Tuberculosis		49		3
Typhoid fever		1	Kerr	1
Typhoid fever	Tuberculosis	2	Measles:	
¹ From Dec. 20, 1918, to Jan. 24, 1919.		1	England, R. F. D 1	1
		·	² From Dec. 12, 1918, to Jan. 23, 1919.	

CAMP EBERTS ZONE, ARK.—continued.		GULFPORT HEALTH DISTRICT, MISS.	
Pneumonia: Ca	ses.	Chicken pox: Ca	ases.
England	2	Pascagoula	1
Lonoke, R. F. D	3	Diphtheria:	_
Syphilis:		Biloxi	1
Lonoke	1	Dysentery: Gulfport	1
FAYETTEVILLE SANITARY DISTRICT, N. C.		Gonorrhea:	1
Chicken pox	2	Gulfport	2
Influenza.		Pascagoula	
Mumps.	_	Hookworm:	
Pneumonia		Pascagoula	1
Syphilis		Influenza:	
		Bay St. Louis	3
CAMP FUNSTON ZONE, KANS.		Biloxi	
Cleburne:		Gulfport	
Influenza	2	Handsboro	7 2
Junction City:	2	Logtown	8
Gonorrhea	1	Long Beach	37
Scarlet fever	2	Lyman	2
Manhattan:		Mississippi City	19
Diphtheria	1	Moss Point	80
Influenza	35	Öcean Springs.	7
Measles	2	Pascagoula	15
Mumps	4	Pass Christian.	41
Pneumonia	5	Scattered	3
GAS AND FLAME SCHOOL ZONE, GA. AND ALA		Malaria: Gulfport	1
GAS AND PERME SONOOD DONE, GIR. 1112 1111		Logtown	3
Chicken pox:		Moss Point.	4
Columbus	1	Pascagoula	1
Influenza:		Measles:	
Bibb City	1	Gulíport	1
ColumbusGirard	67 18	Mumps:	
Muscogee County	39	De Lisle	3
Phoenix City	38	Mississippi City	1
Meningitis:		Moss Point	1
Bibb City	1	Pneumonia: Biloxi	4
Pneumonia:		Gulíport	5
Columbus	4	Handsboro	2
Girard	1	Kiln	3
Scarlet fever: Muscogec County	1	Logtown	1
Smallpox:	- 1	Long Beach	1
Colu ibus	1	Mississippi City	3
Girard	1	Moss Point	13
Tuberculosis:		Scattered.	6 1
Columbus	1	Scarlet fever:	•
Muscogee County	1	Gulfport	2
Phoenix City	1	Syphilis:	
GERSTNER FIELD ZONE, LA.		Kiln	1
		Tuberculosis:	
Influenza	40	Gulfport	1.
Pneumonia	1	Logtown	1
Smallpox	35	Whooping cough: Logtown	3
CAMP GREENE ZONE, N. C.		108 to #11	•
	- 1	CAMP HANCOCK ZONE, GA.	
Charlotte Township:	ا		
Gonorrhea	8 35	Augusta: Diphtheria	1
Syphilis	5	Influenza	
Tuberculosis	1	Smallpox	1
	•	-	

CAMP HUMPHREYS ZONE, VA.		CAMP LEWIS ZONE, WASH.	
Chicken pox: Ca	ses.	Influenza: Ca	ses.
Alexandria	1	Custer	1
Alexandria County	2	Lakeview	4
Fredericksburg	3		_
Influenza:		CAMP M'ARTHUR ZONE, TEX.	
Alexandria			
Alexandria County		Waco:	
Fairfax County		Piphtheria	
Fredericksharg Measles:	50	Influenza.	
Fairfax County	1	Pneumonia	
Mumps:	•	Tuberculosis	
Fredericksburg	2	2 4001041030	•
Pneumonia:	_	CAMP M'CLEILAN ZONE, ALA.	
Fairfax County	2		
Syphilis:		Anniston:	
Alexandria	1	Genorrhea	
CAMP JACKSON ZONE, S. C.		Influenza	
Columbia:		MumpsSmallpox	
Influenza	726	Syphilis	
Measles.	6	Tuberculosis	.1
Pneumonia	1	Precinct 15:	-
Tuberculosis	1	Pneumonia.	1
U. S. Government Clinic:			_
Gonorrhea	3	CAMP MEERITT ZONE, N. J.	
Syphilis	6	· .	
CAMP JOSEPH E. JOHNSTON ZONE, FLA.		Diphtheria: Englewood	1
·		Influenza:	-
Jacksonville:		Bergenfield	6
Chancroid	3	Closter	1
Chicken pox	1	Dumont	
Chicken-pox carrier	1	Englewood	
Erysipelas		Haworth	1
GonorrheaInfluenza		Tenafly	6
Measles	31	Measles:	
Mumps	3	Englewood	1
Pneumonia	2	Pneumonia:	
Scarlet fever	1	Bergentield	6
Syphilis	16	Englewood	7
Trachoma	1	Scarlet fever: Englewood	
Tuberculosis	5	Tuberculosis:	4
Typhoid fever	1	Englewood	i
		Tenafly	î
FORT LEAVENWORTH ZONE, KANS.			•
Leavenworth:		MUSCLE SHOALS SANITARY DISTRICT, ALA.	
Diphtheria	2	Florence:	
Influenza	11	Measles.	10
Leavenworth County:		Muscle Shoals:	
Diphtheria	4	Chancroid	21
Influenza	17 1	Diphtheria	1
Pneumonia	1	Gonorrhea	20
Fileumonia	•	Influenza	78
CAMP LEE ZONE, VA.		Malaria	1
Ettricks:	_	Measles	1
Influenza	1	Mumps	16
Petersburg:		Pneumonia	6
GonorrheaInfluenza	3 24	Scabies Smallpox	3 2
Influenza	24 3	Smallpox	8
Pneumonia.	1	Sheffield and Tuscumbia:	0
Syphilis	2	Influenza	2
Typhoid fever	1	Measles.	8
Prince George County:	- 1	Pneumonia	2
lnflu(nza	2	Typhoid fever	1

FORT OGLETHORPE ZONE, GA. AND TENN		CAMP POLK ZONE, N. C.—continue i.	
Diphtheria:	ases.	Measles:	Case
Chattanooga	. 1	Durham County	
Gonorrhea:		Wake County	
Altonpark		Mumps:	
Chattanooga	. 13	Raleigh	
Influenza:		Smallpox:	
Chattanooga		Durham County	•
Eastlake		Typhoid fever:	
North Chattanooga		Durham	
Rossville	. 5	Wake County	•
Pneumonia:			
Eastlake	. 1	PORTSMOUTH AND NORFOLK COUNTY HEALTH	
Scarlet fever:		DISTRICT, VA.	
Chattanooga	. 1	Gonorrhea:	
Syphilis:	. 9	Portsmouth	. :
Chattanooga	. 8	Influenza:	•
PICRIC ACID PLANT ZONE, GA.		Norfolk	. 1
Brunswick:		Norfolk County	
Gonorrhea	. 5	Portsmouth	
Influenza.		Measles:	
Measles.		Norfolk	. 1
Pneumonia		Portsmouth	
Smallpox		Mumps:	
Syphilis		Norfolk	. 1
by pinus	, ,	Norfolk County	
CAMP PIKE ZONE, ARK.		Syphilis:	
Chicken pox:		Portsmouth	. 1
Little Rock	. 15	Tuberculosis:	
German measles:		Portsmouth	. 3
Little Rock	. 1		
Gonorrhea:		PORTSMOUTH-KITTERY SANITARY DISTRICT,	
Little Rock	7	N H. AND ME.	
Influenza:			
Halsted		Influenza:	_
Jacksonville		Eliot.	
Levy		Kittery	-
Little Rock		York	
North Little Rock		Consist forer	10
Picron	7	Portsmouth	ï1
Measles:	_ }	Whooping cough:	•
Little Rock		York	1
North Little Rock	2	2 0	-
Meningitis:	_	CAMP SEVIER ZONE, S. C.	
Little Rock	1		
Mumps:		Greenville:	
Little Rock	6	Chicken pox	3
Pneumonia:		Scarlet fever	1
Levy	1	Whooping cough	1
Little Rock	45 5	Greenville and vicinity:	
	9	Influenza	
Scarlet fever:		Pneumonia	15
Little Rock North Little Rock	6	Paris Mountain Township:	
	1	Measles	6
Syphilis: Little Rock	3		
North Little Rock.	2	CAMP SHERIDAN ZONE, ALA.	
Trachoma:	2	No A service of the service of th	
Little Rock	1	Montgomery:	17
LAUGO INUCK	-	Influenza	17
CAMP POLK ZONE, N. C.	i	Pneumonia.	5
Influenza:	_	United States Government Clinic:	•
Durham	80	Chancroid	3
Durham County		Gonorrhea	10
Raleigh	400 .	OVDINIS	J

CAMP SHERMAN ZONE, OIIIO.		CAMP UPTON ZONE, N. Y.	
	ses.		ises.
Influenza	19	Brook Haven	_
Measles	1	Riverhead	1
Pneumonia, broncho	2	VANCOUVER ZONE, WASH.	
Scarlet fever	5	Diphtheria	
Ross County:		In luen 2a.	3
Influenza	7	Mumps	
Union Township:		Tuberculosis, pulmoniry	
Measles	1	Tubercalosis, pulmontry	1
United States Government Clinic:	_	CAMP WADSWORTH ZONE, S. C.	
Gonorrhea	3	Chicken pox:	
Syphilis	Z	Arkwright	1
CIMP TICHIBY MINIOR TOWN WW. IND IND		Gonorrhea:	-
CAMP ZACHARY TAYLOR ZONE, KY. AND IND.	•	Spartanburg	5
Chancroid:		Influenza:	٠
U. S. Government clinic	2	Arcadia	2
Diphtheria:		Beaumont Mills	10
Louisville	14	Converse	1
Gonorrhea:		Fairforest	2
U. S. Government clinic	22	Saxon Mills.	3
Venereal clinic, county jail	17	Spartanburg.	
Influenza:		Measles:	200
Clark County	11	Drayton.	1
Jefferson County	94	Spartanburg	3
Louisville	83	Meningitis:	
Pnoumonia:		Medingitis: Fairforest	1
Louisville	5	- Mcamonia.	_
Scarlet fever:		Fairforest	2
Jefferson County	1	Spartanburg	1
Louisville	1	Smallpox:	
Smallpox:		Fairforest	1
Louisville	1		
	- 1	CAMP WHEELED ZONE CA	
Syphilis:	-	CAMP WHEELER ZONE, GA.	
U. S. Government clinic	24	Bibb County:	
U. S. Government clinic	-	Bibb County: Influenza	4
U. S. Government clinic	24 10	Bibb County: Influenza East Macon:	4
U. S. Government clinic	24 10	Bibb County: Influenza East Macon: Influenza.	4 5
U. S. Government clinic	24 10	Bibb County: Influenza East Macon: Influenza Macon:	-
U. S. Government clinic	24 10	Bibb County: Influenza East Macon: Influenza Macon: Chicken pox.	5
U. S. Government clinic. Venereal clinic, county jail Tuberculosis, pulmonary: Louisville TIDEWATER HEALTH DISTRICT, VA.	24 10	Bibb County: Influenza. East Macon: Influenza. Macon: Chicken pox. Influenza.	5 6 43
U. S. Government clinic	24 10 10	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles.	5 6 43 2
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever.	24 10	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia	5 6 43 2 8
U. S. Government clinic. Venereal clinic, county jail Tuberculosis, pulmonary: Louisville TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever Newport News:	24 10 10	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia Smallpox.	5 6 43 2 8 1
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox.	24 10 10	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia Smallpox. Whooping cough	5 6 43 2 8
U. S. Government clinic. Venereal clinic, county jail Tuberculosis, pulmonary: Louisville TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever Newport News: Chicken pox Erysipelas Gonorrhea.	24 10 10	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia Smallpox.	5 6 43 2 8 1
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea.	24 10 10	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough. WILMINGTON SANITARY DISTRICT, N. C.	5 6 43 2 8 1
U. S. Government clinic. Venereal clinic, county jail Tuberculosis, pulmonary: Louisville TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever Newport News: Chicken pox Erysipelas Gonorrhea.	24 10 10 1 1 1 1 15	Bibb County: Influenza. East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough. WILMINGTON SANITARY DISTRICT, N. C. Chicken pox:	5 6 43 2 8 1 3
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea. Influenza. Measles. Proumonia.	24 10 10 1 1 1 1 15 23	Bibb County: Influenza. East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough. WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington.	5 6 43 2 8 1
U. S. Government clinic Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea Influenza Measles. Pnoumonia. Smallpox.	24 10 10 1 1 1 1 15 23 3	Bibb County: Influenza. East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough. WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington. Diphtheria:	5 6 43 2 8 1 3
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox. Erysipelas. Gonorrhea. Influenca. Measles.	24 10 10 11 1 1 15 23 3 1	Bibb County: Influenza. East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough. WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington.	5 6 43 2 8 1 3
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea Influenza Measles. Pneumonia Smallpox Syphilis Phoebus:	24 10 10 1 1 1 1 15 23 3 1	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington Diphtheria: East Wilmington Influenza:	5 6 43 2 8 1 3
U. S. Government clinic Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea Influenza Measles. Pneumonia. Smallpox. Syphilis	24 10 10 1 1 1 1 15 23 3 1	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington. Diphtheria: East Wilmington.	5 6 43 2 8 1 3
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea. Influenza. Measles. Pneumonia. Smallpox Syphilis Phoebus: Measles.	24 10 10 10 1 1 1 1 15 23 3 1 1 1	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington. Diphtheria: East Wilmington. Influenza: Cape Fear Township, rural.	5 6 43 2 8 1 3 3
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea Influenza Measles. Pneumonia Smallpox Syphilis Phoebus:	24 10 10 10 1 1 1 1 15 23 3 1 1 1	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough. WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington. Diphtheria: East Wilmington. Influenza: Cape Fear Township, rural. East Wilmington. Mason Boro Township, rural. Oleander.	5 6 43 2 8 1 3
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea. Influenza. Measles. Pnoumonia. Smallpox. Syphilis. Phoebus: Measles. CAMP TRAVIS ZONE, TEX.	24 10 10 10 1 1 1 1 15 23 3 1 1 1	Bibb County: Influenza East Macon: Influenza Macon: Chicken pox. Influenza Measles. Pneumonia. Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington Diphtheria: East Wilmington Influenza: Cape Fear Township, rural East Wilmington. Mason Boro Township, rural Oleander Sea Gate	5 6 43 2 8 1 3 1 2 1 6 2
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox. Erysipelas. Gonorrhea. Influenca. Measles. Pneumonia. Smallpox. Syphilis. Phoebus: Measles. CAMP TRAVIS ZONE, TEX.	24 10 10 11 1 1 15 23 3 1 1 1 3	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington Diphtheria: East Wilmington. Influenza: Cape Fear Township, rural. East Wilmington. Mason Boro Township, rural. Oleander Sea Gate. Wilmington. 33	5 6 43 2 8 1 3 1 2 1 6 2
U. S. Government clinic. Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox. Erysipelas. Gonorrhea. Influenza. Measles. Pneumonia. Smallpox. Syphilis Phoebus: Measles. CAMP TRAVIS ZONE, TEX. San Antonio: Gonorrhea.	24 10 10 10 1 1 1 15 223 3 1 1 1	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox. Influenza. Measles. Pneumonia. Smallpox. Whooping cough. WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington. Diphtheria: East Wilmington. Influenza: Cape Fear Township, rural. East Wilmington. Mason Boro Township; rural. Oleander. Sea Gate. Wilmington. Measles:	5 6 43 2 8 1 3 1 2 1 6 2
U. S. Government clinic Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox. Erysipelas. Gonorrhea. Influenza. Measles. Pneumonia. Smallpox. Syphilis Phoebus: Measles. CAMP TRAVIS ZONE, TEX. San Antonio: Gonorrhea. Influenza. 15	24 10 10 10 1 1 1 15 23 3 1 1 1 1 9 33	Bibb County: Influenza East Macon: Influenza Macon: Chicken pox. Influenza Measles. Pneumonia Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington Diphtheria: East Wilmington. Influenza: Cape Fear Township, rural East Wilmington Mason Boro Township, rural Oleander Sea Gate Wilmington Measles: Wilmington Measles: Wilmington	5 6 43 2 8 1 3 1 2 1 6 2
U. S. Government clinic Veneral clinic, county jail. Tuberculosis, pulmonary: Louisville TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea. Influenza. Measles. Preumonia. Smallpox Syphilis Phoebus: Measles. CAMP TRAVIS ZONE, TEX. San Antonio: Gonorrhea. Influenza. Influenz	24 10 10 11 1 1 15 223 3 1 1 1 3 1	Bibb County: Influenza East Macon: Influenza Macon: Chicken pox. Influenza Measles. Pneumonia Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington Diphtheria: East Wilmington. Influenza: Cape Fear Township, rural East Wilmington Mason Boro Township, rural Oleander Sea Gate Wilmington Measles: Wilmington Nessles: Wilmington Pneumonia:	5 6 43 2 8 1 3 1 2 2 1 6 2 6 9 1
U. S. Government clinic Veneral clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea Influenza Measles. Pneumonia Smallpox Syphilis Phoebus: Measles. CAMP TRAVIS ZONE, TEX. San Antonio: Gonorrhea In fluenza Measles. CAMP TRAVIS ZONE, TEX. San Antonio: Gonorrhea In fluenza In fluenza Measles.	24 10 10 1 1 1 1 15 223 3 1 1 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1	Bibb County: Influenza East Macon: Influenza Macon: Chicken pox. Influenza Measles. Pneumonia Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington Diphtheria: East Wilmington Influenza: Cape Fear Township, rural East Wilmington. Mason Boro Township; rural Oleander Sea Gate Wilmington Measles: Wilmington Pneumonia: East Wilmington Pneumonia: East Wilmington.	5 6 43 2 8 1 3 3 1 2 2 1 6 2 2 1 6 1 1 1 1 1 1 1 1 1 1 1
U. S. Government clinic Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea Influenza Measles. Pneumonia Smallpox Syphilis Phoebus: Measles. CAMP TRAVIS ZONE, TEX. San Antonio: Gonorrhea Influenza	24 10 10 1 1 1 1 1 1 1 1 1 2 3 3 1 1 1 1 2 3 1 1 1 2 1 1 2 1 1 1 1	Bibb County: Influenza East Macon: Influenza. Macon: Chicken pox Influenza. Measles. Pneumonia. Smallpox. Whooping cough. WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington. Diphtheria: East Wilmington. Influenza: Cape Fear Township, rural. East Wilmington. Mason Boro Township; rural. Oleander. Sea Gate. Wilmington. Measles: Wilmington. Pneumonia: East Wilmington. Pneumonia: East Wilmington. Wilmington. Pneumonia: East Wilmington. Wilmington. Wilmington. Wilmington. Wilmington. Wilmington. Wilmington. Wilmington. Wilmington. Wilmington.	5 6 43 2 8 1 3 1 2 2 1 6 2 6 9 1
U. S. Government clinic Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville. TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea. Influenza. Measles. Pneumonia. Smallpox Syphilis. Phoebus: Measles. CAMP TRAVIS ZONE, TEX. San Antonio: Gonorrhea. Influenza. Influe	24 10 10 1 1 1 1 1 1 1 1 1 1 2 3 3 1 1 1 9 9 3 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bibb County: Influenza East Macon: Influenza Macon: Chicken pox Influenza Measles Pneumonia Smallpox Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington Diphtheria: East Wilmington Influenza: Cape Fear Township, rural East Wilmington Mason Boro Township, rural Oleander Sea Gate Wilmington Measles: Wilmington Measles: Wilmington Pneumonia: East Wilmington Pneumonia: East Wilmington Wilmington Pneumonia: East Wilmington Wilmington Pneumonia: East Wilmington Wilmington Pneumonia: East Wilmington Wilmington Tuberculos:s:	5 6 43 2 8 1 3 3 1 2 2 1 6 2 3 9 1 1 6 1 6 1 1 6 1 1 6 1 1 6 1 1 1 1 6 1 1 1 1 1 6 1
U. S. Government clinic Venereal clinic, county jail. Tuberculosis, pulmonary: Louisville TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever. Newport News: Chicken pox Erysipelas. Gonorrhea. Influenza. Measles. Pneumonia Smallpox. Syphilis Phoebus: Measles. CAMP TRAVIS ZONE, TEX. San Antonio: Gonorrhea. Influenza. Influenza. Influenza. Influenza. Measles. Measles. Pneumonia. Syphilis	24 10 10 1 1 1 1 1 1 1 1 1 1 1 3 3 1 1 1 9 3 3 1 1 1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1	Bibb County: Influenza East Macon: Influenza Macon: Chicken pox. Influenza Measles. Pneumonia Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington Diphtheria: East Wilmington. Influenza: Cape Fear Township, rural East Wilmington Mason Boro Township, rural Oleander Sea Gate Wilmington Pneumonia: East Wilmington Pneumonia: East Wilmington Wilmington Pneumonia: East Wilmington Wilmington Piculosis: Wilmington	5 6 43 2 8 1 3 3 1 2 2 1 6 2 2 1 6 1 1 1 1 1 1 1 1 1 1 1
U. S. Government clinic Veneral clinic, county jail. Tuberculosis, pulmonary: Louisville TIDEWATER HEALTH DISTRICT, VA. Hampton: Scarlet fever Newport News: Chicken pox Erysipelas Gonorrhea Influenza Measles Pnoumonia Smallpox Syphilis Phoebus: Measles. CAMP TRAVIS ZONE, TEX. San Antonio: Gonorrhea Influenza In	24 10 10 1 1 1 1 1 1 1 1 1 1 2 3 3 1 1 1 9 9 3 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bibb County: Influenza East Macon: Influenza Macon: Chicken pox. Influenza Measles. Pneumonia. Smallpox. Whooping cough WILMINGTON SANITARY DISTRICT, N. C. Chicken pox: Wilmington. Diphtheria: East Wilmington. Influenza: Cape Fear Township, rural. East Wilmington. Mason Boro Township, rural. Sea Gate. Wilmington. Measles: Wilmington. Pneumonia: East Wilmington. Pneumonia: East Wilmington. Vilmington. Preumonia: East Wilmington. Vilmington. Tuberculos:s: Wilmington. Typhoid fever:	5 6 43 2 8 1 3 3 1 2 2 1 6 2 3 9 1 1 6 1 6 1 1 6 1 1 6 1 1 6 1 1 1 1 6 1 1 1 1 1 6 1

DISEASE CONDITIONS AMONG TROOPS IN THE UNITED STATES.¹

Six Months Ended December 27, 1918.

The following data were compiled in the office of the Surgeon General, United States Army, from weekly telegraphic reports:

Annual admission rate per 1,000 (disease	Average noneffective rate per 1,000 on days	
only):	of reports—Continued.	
All troops	Cantonments	56, 25
Divisional camps	Departmental and other troops	41.62
Cantonments	Annual death rate per 1,000 (disease only):	
Departmental and other troops 1,199.52	All troops	32. 15
Average noneffective rate per 1,630 on days	Divisional camps	29.90
of reports:	Cantonments	36.69
All troops	Departmental and other troops	27.82
Divisional camps 62. 93		

Annual admission rate for special diseases reported during 6 months ended Dec. 27, 1918.

Camp.	Pneumonia.	Dysentery.	Malaria,	Venereal.	Influenza.	Measlos.	Meningitis.	Scarlot fever.	Annual death rate (disease only).	Annual admission rate per 1,000 (disease only).	Average noneifective per 1,000 on days of reports.
Beauregard Bowie Cody Forrest Fremont Greene Greenleaf Hancock Kearny Logan MacArthur McClellan Sevier Sheilby Sheridan Wadsworth Wheeler Custer Devens Dix Dodge Eustis Funston Gordon Grant Humphreys Jackson Johnston Las Casas Lee Lewis Meade Pike Sherman Taylor Travis Upton Northeastern Department Eastern Southeastern Southeastern Central Soveres	170. 5 35. 0 52. 3 125. 7 19. 5 95. 5 83. 2 117. 4 418. 3 66. 7 131. 0 119. 8 45. 3 66. 7 104. 8 150. 4 117. 0 67. 2 40. 8 128. 1 150. 7 50. 6 128. 1 150. 7 50. 6 128. 1 120. 6 184. 5 23. 1 120. 6 184. 8 23. 1 180. 8 23. 1 181. 4 82. 2 181. 4 82. 2 181. 4 82. 2 181. 4 83. 2 183. 2 184. 8 185. 8	7.50 0.32 0.09 0.33 0.00	24.65 5.84 1.13 0.01 0.13 2.96 2.84 1.93 15.26 2.53 4.82 13.6 21.7 0.0 2.48 0.61 1.96 8.01 1.97 24.37 0.5 1.15 0.83 0.0 5.545	216. 0 803. 2 110. 8 136. 0 49. 3 321. 2 52. 9 129. 3 102. 2 178. 8 158. 8 91. 6 70. 9 106. 7 222. 9 570. 3 89. 9 194. 5 75. 6 250. 0 118. 7 140. 5 176. 5 1	527. 2 980. 5 487. 1 549. 9 25. 5 792. 7 608. 8 466. 4 464. 3 780. 0 448. 3 431. 9 254. 1 9. 3 516. 4 760. 3 516. 4 760. 3 518. 3 514. 5 744. 7 406. 2 207. 9 349. 5 549. 5 194. 9 488. 4 638. 3 349. 5 549. 7 647. 7 647. 7 647. 7 648. 3 349. 5 647. 7 647. 7 647. 7 647. 7 648. 3 349. 5 647. 7 647. 7 647. 7 647. 7 648. 3 349. 5 549. 5 647. 7 647.	23.1 6.2 3.0	2.7 0.6 0.3 0.03 2.8 1.0.6 0.5 1.3 0.5 0.5 1.1 0.2 1.0 0.2 1.0 0.3 0.3 0.3 0.3 0.5 0.5 1.3 0.5 1.3 0.5 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.0 0 0.2 8.1 1 0.0 0 0.1 1 0.7 1 0.4 4 0.5 1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	55. 0 40. 6 39. 3 40. 6 39. 3 20. 4 48. 8 32. 3 37. 2 19. 5 21. 5 21. 5 22. 0 42. 2 46. 8 50. 5 17. 5 17. 5 17. 5 17. 5 17. 5 18. 6 19. 6 19	2, 124. 4 2, 622. 7 983. 4 2, 046. 8 897. 1, 676. 2 1, 293. 0 1, 756. 3 1, 708. 4 1, 454. 5 1, 667. 6 1, 881. 7 1, 683. 5 1, 243. 0 1, 381. 6 1, 715. 6 1, 464. 5 1, 465. 5 1, 466. 5 1, 4	78. 2 58. 3 46. 6 51. 5 50. 1 59. 3 38. 5 66. 3 56. 1 57. 5 7 34. 0 55. 0 36. 3 56. 1 57. 5 7 34. 0 55. 1 38. 5 60. 1 57. 5 7 38. 5 60. 1 57. 5 60. 1 60. 1
WesternAeronautics	51.3 46.8	0. 75 0. 33	0.30 3.26	58. 2 53. 1	325. 4 355. 0		1. 2 0. 2	1. 1 1. 2	25. 5 17. 7	999. 8 1, 217. 5	32. 4 43. 7

Annual death rate per 1,000 (disease only), by causes, for the six months ended Dec. 27, 1918.

Pneumonia	28.558	Scarlet fever	0.016
Influenza	1.513	Typhoid fever	. 051
Meningitis	. 422	Dysentery	.009
Empyema	. 149	Other diseases	. 966
Tuberculosis	. 383	Total	20 150
Septicemia	.064	T081	JZ. 15Z
Maarlaa	021		

Annual admission rate per 1,000 for special diseases, six months ended Dec. 27, 1918.

Disease.	All troops in United States, 1917.	All troops in United States.	Depart- mental and other troops.	Divisional camps.	Canton- ments.
Pneumonia Dysentery Malaria Venereal Paratyphoid Typhoid Measles Meningitis Scarlet fever Influenza	.87 7.46 113.82 .02 .41 85.15 1.74	85. 18 .63 3. 75 150. 62 .01 .28 .24. 70 .97 1. 65 452. 02	48. 89 .94 2. 93 84. 80 .01 .27 10. 64 .57 1. 21 385. 01	87. 51 .88 6. 43 182. 11 .006 .39 30. 25 1. 05 3. 51 449. 47	113. 48 .27 1.67 189. 89 .02 .26 33. 62 1. 27 1. 18 507. 37

Week Ended January 17, 1919.

The following data are taken from telegraphic reports received in the office of the Surgeon General of the United States Army for the week ended January 17, 1919. Reports from the American Expeditionary Forces are delayed in transmission, and the "current week" for troops in the American Expeditionary Forces is not the same period as "current week" for troops in the United States.

•	Current week.	Last week.
Annual admission rate per 1,000 (all causes): All troops in United States. American Expeditionary Forces. Annual admission rate per 1,000 (disease only):	1, 418. 29 873. 70	1,515.56 887.39
All troops in United States. American Expeditionary Forces Noneffective rate per 1,000 on day of report:	1, 197. 54 719. 22	1, 239. 29 733. 05
All troops in United States. American Expeditionary Forces. Annual death rate per 1,000 (all causes):	54. 22 56. 85	50. 31 63. 96
All troops in United States. American Expeditionary Forces. Annual death rate per 1,000 (disease only):	16. 73 15. 6 8	14. 40 30. 17
All troops in United States. American Expeditionary Forces.	15. 66 7. 82	13. 28 7. 76

Cases of special diseases reported during the week ended Jan. 17, 1919.

	la.	¥.			nereal eases.	١.		ls.	ver.	admis- rate per (disease	ive per day of
Camp.	Pneumonia.	Dysentery.	Malaria.	Total.	New in-	Influenza	Moasles.	Meningitis.	Scarlet fever.	Annual sion re 1,000 (only).	Noneffective per 1,000 on day of report.
Beauregard. Bowie Cody Fremont Greene Greenleaf Hancock Kearny Logan MacArthur McClellan Sevier Sheridan Shelby Wadsworth Wheeler Custer Devens Dix Dodge Eustis Funston Gordon Grant Humbhreys Jackson J. E. Johnston Henry Knox Las Casas Lee Lewis Meade Pike Sherman Taylor Travis Upton Northeast Department Eastern Department Southerastern Department Southerastern Department Southerastern Department Southers Department Southers Department Southerastern Department Southe	777 144 9 8 8 1 1 16 23 3 141		1 1 2 2 3 1	22 41 24 16 11 10 46 8 8 8 11 11 21 22 21 22 21 21 21 21 21 21 21	12 2 3 4 3 4 222 10	955 455 344 982 21 21 31 87	1 1 8 5 3	1	2 2	1, 882, 17 2, 124, 39 593, 95 1, 862, 20 810, 04 71, 190, 40 818, 24 948, 23 2, 325, 37 1, 248, 31 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 107, 38 1, 111, 87 1, 204, 02 1, 285, 99 948, 86 1, 316, 48 1, 316, 48 1, 316, 48 2, 178, 04 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 218, 23 1, 364, 14 1, 257, 26 1, 316, 48 2, 178, 04 2, 178, 04 2,	50. 69 72. 29 58. 95 132. 34 56. 20 9 45. 20 47. 85 86. 30 77. 12 50. 30 60. 57 71. 14 50. 30 60. 59 80. 59 80. 59 80. 57 80. 50 80. 57 80. 50 80. 50 80 80. 50 80 80 80 80 80 80 80 80 80 80 80 80 80
Total	702	6	18	1,233	171	1,897	192	9	110	1, 197. 54	54. 2

Number of deaths and annual rates per 1,000 at large camps in United States, week ended Jan. 17, 1919.

		Dea	iths.	Annual rate, deaths per 1,000.		
Camp.	Strength.	All causes.	Disease only.	All causes.	Disease only.	
Beauregard. Bowie Cody Fremont. Greene. Greenleaf Hancock Kearny Logan MacArthur McClellan. Sevier Shelby Sheridan. Wadsworth. Wadsworth. Wadsworth. Wadsworth. Dovers Eustis Funston Gordon Gordon Gorant Humphroys Jackson J. E. Johnston Henry Knox Las Cassas Lee. Lewie	10, 837 5, 997 2, 714 2, 569 6, 291 2, 323 14, 025 10, 744 6, 471 17, 421 6, 563 6, 066 2, 462 28, 817 23, 729 20, 165 4, 838 4,	causes. 1 2 1 0 1 0 0 27 2 4 4 5 5 8 1 1 9 4 4 5 5 2 10 0 1 1 1	only.	causes. 4. 80 17. 34 19. 15 8. 26 100. 14 7. 28 19. 36 40. 17 23. 88 7. 80 3. 60 8. 78 8. 89 10. 74 13. 20 13. 95 11. 21 9. 24 25. 45 23. 4	only. 4.80 17.34 19.15 100.14 7.28 19.36 40.17 23.88 7.80 3.60 6.57 6.67 12:89 10.74 11.74 12.49 25.45 23.4	
Act Act	29, 411 29, 649 28, 776 15, 428 16, 764 16, 014 18, 732 15, 198 5, 740 30, 563 8, 665 4, 250 44, 598 13, 063 68, 205 22, 363 33, 529 130, 328	12 55 10 55 11 12 12 11 14 48 8 8 65	12 55 10 5 10 05 02 21 11 00 42 88 4	2.04 3.5 9.03 33.72 16.49 3.24 7.27 17.11 9.05 8.40 6.0 94.47 12.82 3.98 36.59 16.41 25.94	2.04 8.5 9.03 33.72 16.49 3.24 17.11 3.40 6.0 24.47 12.82 32.02 16.48 1.59	

Annual admission rate per 1,000 for certain diseases.

Diseases.	Troops in Sta	n United tes.	American Expedi- tionary forces.		
	Current week.	Last week.	Current week.	Last week.	
Pneumonia. Dysentery.	0.35	31. 65 0. 05	25. 24 1. 03	26. 77 1. 46	
Malaria. Verrereal Paratyphoid.	1.06 73.16 .0	. 05 68. 55 . 0	. 39 30. 64 0. 13	. 13 27. 40 . 16	
Typhoid Measles. Meningitis	. 23 11. 39 . 53	. 39 10. 15 1. 06	1. 53 1. 98 2. 06	1. 27 5. 13 2. 07	
Scarlet fever. Influenza.	6. 52 112. 56	3. 68 105. 39	. 78	71	

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended January 25, 1919.

Alabama.—State totals: Typhoid fever 7, smallpox 38, diphtheria 5, meningitis 2, influenza 2,553.

Arkansas.—Influenza: Izard about 300, Arkadelphia 125, Conway County 82, Lee 80, Ouachita 72, Madison 64, Bentonville 58, Bradley 60, Hempstead 57, Drew 40, St. Francis 39, Marianna 29, Faulkner 28, Rogers 28, Girard 25, Siloam Springs 20, Palestine 19, Hartford 16, Iuka 7 cases (death 1, pneumonia), Dermott 4 cases (deaths 2, pneumonia), other places 24. Malaria 29, smallpox 11, scarlet fever 2, diphtheria 8, typhoid fever 5, meningitis 1, tuberculosis 9, measles 13, pellagra 1.

California.—Influenza: Total cases reported during week 9,800 (total from beginning of epidemic to Jan. 28, 290,100). Marked decrease in number of cases throughout entire State. Fifteen cases of smallpox, distributed as follows: Long Beach 4, Monterey County 1, Watsonville 5, Santa Cruz County 1, Berkeley 2, San Francisco 2. Two cases poliomyelitis—1 San Francisco,1 Oakland. One case cerebrospinal meningitis at San Francisco.

Connecticut.—Cerebrospinal meningitis, Griswold 1. Influenza, total for State 863 cases.

Florida.—State totals: Typhoid fever 6, malaria 5, measles 36, scarlet fever 4, diphtheria 10, influenza 309, chicken pox 8, meningitis 2, pneumonia 7. Influenza: Panama City 170. Meningitis: De Soto 1, Gadsden 1.

Illinois.—Diphtheria: State 186, of which in Chicago 140. Scarlet fever: State 91, of which in Chicago 57, Quincy 6. Smallpox: State 84, of which in Elgin 8, Alma 8, Salem 6, Normal 6, Peoria 8, Rock Island 12, Pekin 7, Chicago 13. Meningitis: Chicago 6, Jerseyville 1. Poliomyelitis: Chicago 1. Pneumonia: State 488, of which in Chicago 452. Gonorrhea: State 64, of which in Chicago 56. Syphilis: State 38, of which in Chicago 35. Recrudescence of influenza noted in following Illinois communities: Flora city 36 cases, Lamotte and Prairie Townships (Crawford County) 45 and 37, respectively, St. Elmo 22, Ora Township (Jackson County) 23, Jerseyville 36, Rosedale Township (Jersey County) 20, Compton 20, Oran Township (Logan County) 33, Brighton 21, Salt Creek Township (Mason County) 25, Harvard 23, Pinckneyville precinct (Perry County) 45, Belleville 30. Total new cases of influenza 3,564, against 3,506 for preceding week.

Indiana.—Influenza: State 207 cases. Syphilis 16, gonorrhea 23. Typhoid fever: Epidemic at Marengo, Crawford County. Diphtheria: Lake County 1, Laporte 1, Howard 1, Wayne 1, Grant 1, Dekalb 1, Kosciusko 4.

Iowa.—Chancroid: Sioux City 6. Diphtheria: Des Moines 2, Dubuque 4, Gladbrook 1, Mount Pleasant 1, Ottumwa 1. Gonorrhea: Burlington 5, Cedar Rapids 7, Davenport 7, Fort Dodge 2, Guthrie Center 1, Muscatine 1, Sioux City 57, Williamsburg 1. Mumps: Davenport 1. Scarlet fever: Baxter 1, Burlington 1, Council Bluffs 2, Davenport 1, Des Moines 9, Goodell 1, Iowa Falls 1, New London 1, Rowan 1. Smallpox: Cedar Rapids 3, Council Bluffs 8, Des Moines 2, Mason City 7. Syphilis: Davenport 1, Dubuque 1, Fort Dodge 2, Sioux City 6. In rural districts of following counties. Chicken pox: Allamakee 2. Diphtheria: Kossuth 1, Tama 1. Gonorrhea: Tama 1. Scarlet fever: Hancock 2, Pocahontas 1. Smallpox: Buchanan 1, Monona 1. Influenza: Reported in State, 525 cases.

Kansas.—Meningitis: Fort Scott 1. State totals: Influenza 3,944, typhoid fever 3, smallpox 16, diphtheria 20, scarlet fever 23. Influenza: In cities of over 10,000 population; Atchison 10, Coffeyville 47, Hutchinson 22, Independence 27, Kansas City-58, Lawrence 12, Leavenworth 10, Parsons 38, Pittsburg 41, Topeka 162, Wichita 139.

Louisiana.—State totals: Typhoid fever 5, meningitis 5, diphtheria 14, smallpox 21, scarlet fever 2, influenza 7,298. Influenza by parishes: East Baton Rouge 443, St. Landry 341, Lafayette 225, Tangipahoa 219, Jefferson 217, St. James 210, La Salle 208, Avoyelles 204, New Orleans 1,434.

Maine.—Anthrax: Island Falls 1. Conjunctivitis: Augusta 1. Diphtheria: Bangor 1, Bucksport 1, Freeport 1, Livermore 1. German measles: Portland 1. Gonorrhea: Bath 7, Portland 2, Westbrook 1, Dover 1, Sanford 1, Camden 1. Measles: Gardiner 1. Mumps: Stonington 7. Scarlet fever: Portland 2, Norway 3, Castle Hill 1, Belfast 1, Cumberland 4, Westbrook 1. Smallpox: Bangor 1. Syphilis: Foxcroft 1, Portland 1, Paris 1, Norway 1, Bath 1. Tuberculosis: Eight cases. Whooping cough: Robbinston 8, Baileyville 4, York 1. Influenza: Augusta 39, Westbrook 17, Portland 58, Deer Isle 51, Stacyville 21, Moscow 52, scattered cases 157.

Massachusetts.—Unusual prevalence: Typhoid fever: Lawrence 9. Measles: Leominster 50.

Michigan.—Influenza: Bay City 124, Pontiac 166, Saginaw 184, Detroit 306; totals for State, 4,160 cases, 160 deaths.

Minnesota.—Smallpox (new foci): Chippewa County, Clara City village, 1; Norman County, Hendrum Township, 12; Olmsted County, Rochester, 1; Polk County, Queen Township, 1; Rice County, Faribault, 1. Fifty-two syphilis, 94 gonorrhea, 3 chancroid, reported since January 20.

New Jersey.—Influenza: 3,168 cases. Pneumonia: 446 cases.

New York.—Typhoid fever 27, of which in Mechanicsville 10; diphtheria, 200; scarlet fever, 126; whooping cough, 49; smallpox, 3,

of which in Buffalo 1, West Seneca town 1, Oswego 1; poliomyelitis 1; pneumonia, 302. Voluntary reports: Gonorrhea 23, syphilis 123.

North Carolina.—Whooping cough 59, measles 61, diphtheria 22, scarlet fever 21, septic sore throat 18, smallpox 52, chicken pox 20, infantile paralysis 1, typhoid fever 17, meningitis 1, ophthalmia neonatorum 2, broncho-pneumonia 73, lobar pneumonia 33. Influenza: By counties—Alamance 1, Chatham 5, Clay 3, Cleveland 175, Cumberland 246, Davidson 236, Gaston 39, Johnston 229, Lincoln 30, Montgomery 8, Pitt 118, Rockingham 22, Surry 6. City of Charlotte 155.

Ohio.—Smallpox: Gallipolis Epileptic Institution 8 cases. No other undue prevalence. Influenza recurring in some localities, though declining generally.

Oregon.—Influenza: Portland 719 cases (112 deaths); by counties—Clackamas 41, Columbia 21, Curry 1 death, Gilliam 5, Hood River 3, Jackson 4, Lane 2, Lincoln 25, Linn 30 (3 deaths), Marion 14, Multnomah 10, Polk 2, Tillamook 2, Wasco 26 (3 deaths), Washington 10.

Vermont.—Little change in influenza; 1,038 cases reported from 49 towns.

Virginia.—Smallpox: Charlotte County 1, Albemarle 1, Accomac 1, Surry 2, Fauquier 2. Influenza: State total 881 cases.

Washington.—No unusual outbreak of disease. Influenza generally on decrease throughout State; slightly on increase in Tacoma. Thirteen cases smallpox reported from Yakima County.

RECIPROCAL NOTIFICATION.

Minnesota.

Cases of communicable diseases referred during December, 1918, to other State health departments by Department of Health of the State of Minnesota.

Disease and locality of notification.	Referred to health authority of—	Why referred.
Smallpox: Minneapolis Health Department, County. Tuberculosis:	Minot, Ward County, N. Dak	Man, wife and baby exposed to smallpox while visiting in Minneapolis.
Mayo Clinic, Rochester, Olmsted County.	Little Rock, Pulaski County, Ark.; Los Angeles, Los Angeles County, Cal.; Ouray, Ouray, Colo.; Des Moines, Polk County, Iowa (2 cases); Fort Dodge, Webster County, Iowa; Cedarvals, Chautauqua County, Kans.; Wichita, Sedgwick County, Kans.; Wakefield, Gogebic County, Mich.; Bessemer, Gogebic County, Mich.; Bozeman, Gallatin County, Mont.; Kathryn, Barnes County, N. Dak.; Oxford, Marquette County, Wis.; Antigo, Langlade County, Wis.; Sault Ste. Marie, Ontario, Canada.	of disease not given) cases left Mayo clinic for homes.
Thomas Hospital, Minne- apolis, Hennepin County.	Hanlontown, Worth County, Iowa; Northwood, Worth County, Iowa.	2 open cases left hospital for homes.
Pokegama Sanatorium, Pine County.	Mason City, Cerro Gordo County, Iowa	1 open case left sanatorium for home.

CHANCROID.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Cases.	Cases.
Camp Joseph E. Johnston sone, Fla 3	Camp Sheridan zone, Ala 3
Muscle Shoals sanitary district, Ala	

CEREBROSPINAL MENINGITIS.

State Reports for October, November, and December, 1918.

Place.	New cases reported.	Place.	New case reported
alifornia (October):	•	Louisiana (December)—Continued,	
Contra Costa County-	1 .	Orleans Parish	
Richmond	1	Rapides Parish	1
Kings County—		West Feliciana Parish	:
Hanford	1 1	Mart 1	1
Los Angeles.	1	Total	1.
Watts.	Ī	Maryland (December):	
San Francisco	2	Baltimore	1 :
San Francisco. San Joaquin County—	-	Anne Arundel County	
Stockton	1	Baltimore County—	ŀ
San Mateo County	1	Bay View Hospital	:
San Mateo	1		<u> </u>
Shasta County—		Total	
Redding Solano County	1	Magazahuratta (Dasamban)	
Solatio County	1	Massachusetts (December): Berkshire County—	
Total	12	Great Barrington (town)	,
- Uver	1.6	Bristol County—	
llinois (December):		Bristol County— Fall River	1
Cook County—		Essex County— Haverhill	
Chicago	5	Haverhill	1
Franklin County—		Salem	2
Orient	1	Hampden County—	
Lake County—	_ [Westfield (town)	1
Highland Park	1	Middlesex County—	
Peoria County— Hanna City		Arlington (town)	1
Peoria	1	Camp Devens	2
Washington County-	*	Malden	í
Washington County— Nashville	1	Newton.	i
		Norfolk County-	•
Joliet	1	Brookline (town)	1
		Suffolk County—	
Total	11	Boston	4
(December)		Winthrop (town)	1
owa (December): Butler County		Worcester County— Northborough (town)	
Dunes County	1	Moremoorough (town)	,1
ansas (December):		Total	21
Posten Country	1		
Great Bend	1	Minnesota (December):	
Butler County— Benton	i i		
Benton	2	Minneapolis	2
Clay County— Clay Center		Minneapolis. St. Louis County— Duluth.	
Cowley County-	1	Duluth	. 1
Arkansas City	1	Total	
Atlanta (R. D.)	1	10081	8
Geary County-	- 1		
Geary County— Junction City	5	Nebraska (October): Douglas County Thayer County	1
(lmanwood ('ounty	- 1	Theyer County.	î
Eureka	1 #	_	
	Ħ	Total.	2
Soldier (R. D.)	1		
Marion County— Marion (R. D.)	. 1	Nebraska (November):	_
Moston Country	1	Gage County	1
Elkhart	1	Now Jersey (Denomber)	
Namaha Cauntu	* N	New Jersey (December): Bergen County.	
Centralia (R. D.)	1		2 1
	#	Hudson County. Middlesex County Passaie County.	i.
Total	16	Middlesex County	î
<u> </u>	N	Passaie County.	1 2
guisiana (December): Bienville Parish	1 2	Total	
			7

CEREBROSPINAL MENINGITIS—Continued.

State Reports for October, November, and December, 1918-Continued.

Place.	New cases reported.	Place.	New cases reported.
North Carolina (Pecember): Catawba County Durham County Forsyth County Mecklenburg County New Hanover County	3	Pennsylvania (December)—Continued, Lycoming County. Philadelphia County. Total. Rhode Island (December); Providence.	18
Ohio (December): Athens County Belmont County Clinton County Cu-shors County Erie County Fairfield County Franklin County Hamilton County Morgan County Richland County Warren County	1 1 1	South Carolina (December): Richland County Virginia (December): Albemarle County James City County James City County Williamsburg Pittsylvania County Prince George County. Roanoke County Roanoke County Fredericksburg Washington County Abinadon Wise County Exeter Wythe County Ivanhoe. Total	1 1 1

City Reports for Week Ended Jan. 11, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md. Beaumont, Tex Birmingham, Ala Boston, Mass Bridgeport, Conn. Charlotte, N. C. Chicago, Ill Little Rook, Ark Louisville, Ky. Malden, Mass. Milwaukee, Wis Minneapolis, Minn Nashua, N. H.	1 1 2 2 2 3	1 2 1 1	New York, N. Y	11 1 2 1 1 1 2 1	1

DIPHTHERIA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Cases.	Cases.
Camp Bowie zone, Tex	Camp Merritt zone, N. J 1
Camp Dix zone, N. J	Muscle Shoals sanitary district, Ala 1
Camp Funston zone, Kans 1	Fort Oglethorpe zone, Ga. and Tenn 1
	Camp Zachary Taylor zone, Ky. and Ind 14
Camp Hancock zone, Ga 1	Vancouver zone, Wash
	Wilmington sanitary district, N. C 1
Camp MacArthur zone, Tex 1	

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 214.

GONORRHEA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Ca	ses.	Cas	ses.
Camp Beauregard zone, La	1	Fort Oglethorpe zone, Ga. and Tenn	14
Camp Bowie zone, Tex	10	Picric Acid Plant zone, Ga	5
Camp Doniphan zone, Okla	2	Camp Pike zone, Ark	7
Camp Funston zone, Kans	2	Portsmouth and Norfolk County health dis-	
Camp Greene zone, N. C	8	trict, Va	3
Gulfport health district, Miss	3	Camp Sheridan zone, Ala	10
Camp Jackson zone, S. C	3	Camp Sherman zone, Ohio	3
Camp Joseph E. Johnston zone, Fla	19	Camp Zachary Taylor zone, Ky. and Ind	39
Camp Lee zone, Va	3	Tidewater health district, Va	15
Camp McClellan zone, Ala	4	Camp Travis zone, Tex	9
Muscle Shoals sanitary district, Ala	20	Camp Wadsworth zone, S. C	5

INFLUENZA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Cases.	Cases.
Camp Beauregard zone, La 148	Camp Merritt zone, N. J
Camp Bowie zone, Tex	Muscle Shoals sanitary district, Ala 80
Bremerton zone, Wash	Fort Oglethorpe zone, Ga. and Tenn 30
Charleston sanitary district, S. C 449	Picric Acid Plant zone, Ga
Camp Devens zone, Mass 9	Camp Pike zone, Ark
Camp Eberts zone, Ark 106	Camp Polk zone, N. C
Fayetteville sanitary district, N. C 195	Portsmouth and Norfolk County health dis-
Camp Funston zone, Kans 37	trict, Va 160
Gas and Flame School zone, Ga. and Ala 163	Portsmouth-Kittery sanitary district, N. H.
Gerstner Field zone, La 40	and Me
Camp Greene zone, N. C	Camp Sevier zone, S. C 431
Gulfport health district, Miss 389	Camp Sheridan zone, Ala
Camp Hancock zone, Ga	Camp Sherman zone, Ohio
Camp Humphreys zone, Va 168	Camp Zachary Taylor zone, Ky. and Ind 188
Camp Jackson zone, S. C	Tidewater health district, Va
Camp Joseph E. Johnston zone, Fla 143	Camp Travis zone, Tex
Fort Leavenworth zone, Kans	Vancouver zone, Wash 109
Camp Lee zone, Va	Camp Wadsworth zone, S. C 153
Camp Lewis zone, Wash 5	Camp Wheeler zone, Ga 52
Camp MacArthur zone, Tex 7	Wilmington sanitary district, N. C 382
Camp McClellan zone, Ala 15	• .

MALARIA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

	189.	Cas	
Camp Beauregard zone, La	4	Muscle Shoals sanitary district, Ala	1
Camp Eberts zone, Ark	4	Camp Travis zone, Tex	1
Gulfport health district, Miss	9		

State Reports for October, November, and December, 1918.

Place.	New cases reported.	Place.	New cases reported.
California (October): Butte County. Chico. Gridley. Calaveras County. Angeles. Colusa County. Fresno County. Glenn County. Grand Kern County. Los Angeles County. Los Angeles. Marin County. Fort McDowell	8 1 2 1 1 1 1 2	California (October)—Continued. Merced County. Placer County. Auburn. Sacramento County. San Diego County. San Diego. San Francisco. San Joaquin County Stockton. Solano County. Benecia. Tehama County. Corning. Trinity County	1 1 7 1 1 6 2 2

MALARIA—Continued. State Reports for October, November, and December, 1918—Continued.

Place.	New cases reported.	Place.	New cases reported.
California (October)—Continued. Yolo County Yuba County		Ohio (December);	
Yolo County	. 2	Ashland County	3
Yuba County	1	Columbiana County	
Marysville	. 4	Noble County	1
· · · · · · · · · · · · · · · · · · ·		Portage County	Ī
Total	74		
		Total	6
Kansas (December):	1 1		
Wilson County-	1	South Carolina (December):	
New Albany	1	Marion County	
•		York County	š
Louisiana (December):	1	•	
Acadia Parish	1 1	•s Total	8
De Soto Parish	1 1		
East Baton Rouge Parish		Virginia (December):	
Natchitoches Parish	1 1	Caroline County	3 3 4 2 5
Orleans Parish	1 1	Chesterfield County	3
Plaquemines Parish	1	Dinwiddie County	4
Rapides Parish	20 1	Greenesville County	2
St. Martin Parish	1 1	Emporia	5
St. Tammany Parish	1 30 1	Hanover County	1
Tangipahoa Parish	3	Henrico County—	
Vermilion Parish	l il	Richmond	1
Vernon Parish	2	Isle of Wight County	12
V 0.11011 1 44 1511 1 1 1 1 1 1 1 1 1 1 1 1 1 1		James City County	3
Total	63	King William County-	_
1000		King William County— West Point	2
Maryland (December):		Lancaster County	
Char'es County—	i i	Lunenburg County	2
Ironside, R. D.	2	Kenbridge	ĩ
Calvert County—	- 1	Mecklenburg County-	_
Solomons	2	Boydton	1
Prince George County	- 11	Middlese County	ī
Accokeek, R. D	1		-
		Suffork	2
Crisfield	1 1	Norfolk Coanty	2 2 5
Talbot County-	- 1	Northampton County	5
St. Michaels	4 1	Northumberian I County	4
De. Michaelb		N	_
Total	10	Burkeville	2
10001		Crewe	ī
Massachusetts (December):		Pittsylvania County—	_
Hampden County—	H	Java.	2
Springfield	1	Powhatan County	9
Middlesex County	î ll	Princess Anne County	10
Suffolk County—	- 11	Prince George County	3
Boston	1	Hopewell	2
D0300II	1	Richmond County	2 2
Total	3	Roanoke County—	_
_ Utq:		Salem	2
New Jersey (December):		Southampton County	2 1
Bergen County	1	Surry County	2
Essex County	i H	Sussex County	ã
Morris County	i II	Stony Creek	2 4 2
Passaic County	41	York County	2
I assauc County			
Total	44	Total	99
1U651	II	±0.001	

City Reports for Week Ended Jan. 11, 1919.

During the week ended January 11, 1919, malaria was reported at Bayonne, N. J., High Point, N. C., Little Rock, Ark., and Richmond, Va., one case each.

MEASLES.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

	ses.	Cas	es.
Camp Beauregard zone, La	2	Camp Pike zone, Ark	4
Camp Eberts zoné, Ark	1	Camp Polk zone, N. C.	5
Camp Funston zone, Kans	2	Portsmouth and Norfolk County health dis-	-
Gulfport health district, Miss	1	trict, Va	2
Camp Humphreys zone, Va	1	Camp Sevier zone, S. C.	
Camp Jackson zone, S. C	6	Camp Sherman zone, Ohio	
Camp Joseph E. Johnston zone, Fla	31	Tidewater health district, Va	
Camp Lee zone, Va	3	Camp Travis zone, Tex	
Camp Merritt zone, N. J	1	Camp Wadsworth zone, S. C.	4
Muscle Shoals sanitary district, Ala	19	Camp Wheeler zone, Ga	2
Picric Acid Plant zone, Ga	11	Wilmington sanitary district, N. C	

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 214.

PELLAGRA.

State Reports for October and December, 1918.

Place.	New cases reported.	Place.	New cases reported.
California (October): Los Angeles County— Los Angeles. Riverside County— Banning. San Bernardino County— San Bernardino. Total. Kansas (December): Shawnee County— Topeka State Hospital. Louislana (December): De Soto Parish. East Baton Rouge Parish. Total.	1 1 2 4 1 1 1 1 1 2 2	South Carolina (December): Marion County York County. Total. Virginia (December): Campbell County— Lynchburg Henrico County Orange County Powhatan County Warwick County Total.	2

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga	1	1 2 1	Chelsea, Mass	4	1 1 1

PNEUMONIA.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Ca	ses.	l	ases.
Camp Beauregard zone, La	1	Camp McCleflan zone, Ala	. 1
Camp Bowie zone, Tex	13	Camp Merritt zone, N. J	. 13
Bremerton zone, Wash	5	Muscle Shoals sanitary district, Ala	. 8
Camp Eberts zone, Ark	5	Fort Oglethorpe zone, Ga. and Tenn	. ł
Fayetteville sanitary district, N. C	24	Picric Acid Plant zone, Ga	. 3
Camp Funston zone, Kans	6	Camp Pike zone, Ark	. 51
Gas and Flame School zone, Ga. and Ala	5	Camp Sevier zone, S. C	. 15
Gerstner Field zone, I.a	1	Camp Sheridan zone, Ala	. 5
Gulfport health district, Miss	39	Camp Zachary Taylor zone, Ky. and Ind	. 5
Camp Humphreys zone, Va	2	Tidewater health district, Va	. 1
Camp Jackson zone, S. C	1	Camp Travis zone, Tex	. 18
Camp Joseph E. Johnston zone, Fla	2	Camp Upton zone, N. Y	. 2
Fort Leavenworth zone, Kans	1	Camp Wadsworth zone, S. C	. 3
Camp Lee zone, Va	1	Camp Wheeler zone, Ga	. 8
Camp MacArthur zone, Tex	9	Wilmington sanitary district, N. C	. 17

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio	4	1	Kalamazoo, Mich Kansas City, Kans	4	4
Alameda, Cal	1 5	5	Kansas City, Kalis	17	26
Atlantic City, N. J.	2	2 2	Kansas City, Mo Kearny, N. J	10	3
Attleboro, Mass	5	5	Lackawanna, N. Y Lakewood, Ohio	13	3 3
Baltimore, Md	25	29	Lakewood, Ohio	1	ľí
Battle Creek, Mich	5	• • • • • • • • • • • • • • • • • • • •	Lawrence, Mass	5	5
Belleville, N. J.	1	•••••	Lincoln, Nebr	1	•••••
Beverly, Mass	6	•••••	Little Rock, Ark	26	3
Binghamton, N. Y	3	•••••	Long Branch, N. J.	1	3
Bloomfield, N. J	5	•••••	Los Angeles, Cal	22 5	14
Bluefield, W. Va	1 98	3	Lowell, Mass Ludington, Mich		6 2
Boston, Mass	1	30 7	Lynn, Mass.	2	î
Bridgeport, Conn	2	•	Manchester, Conn	3 2 5 2	1
Brunswick, Ga	ĩ	i	Manchester, N. H	2	2
Cambridge, Mass	13	4	Manistee, Mich Manitowoc, Wis Marion, Ohio	1	ī
Camden, N. J.	5	•••••	Manitowoc, Wis	2	2
Canton, Ill	1	•••••	Marion, Ohio	6	•••••
Centralia, Ill	2		Melrose, Mass	1	1
Charleston, W. Va	1	• • • • • • • • •	Middletown, N. Y	3	2 3
Chicago, Ill	473	103	Montclair, N. J	9	3
Cleveland, Ohio	45	41	Morgantown, W. Va Morristown, N. J	2 3	1
Columbia, S. C.	2	····· <u>·</u>	Mount Vernon, N. Y.	12	4 3
Cranston, R. I.	7 3	7 3	Newark, N. J.	86	30
Dayton, Ohio	18	73	New Bedford, Mass	3	ĩ
Duluth, Minn	8	3	Newburgh, N. Y.	4	4
Durham N C	ĭ	3	Newburyport, Ma s	i l	
East Orange, N. J.	6	3 2	Newport, Ky	1	1
Durham, N. C	5	2	Newport, R. I	6	1
Englewood, N. J	1	2	Newton, Mass	2	. 2
Fall River, Mass	14		New York, N. Y.	652	519
Findlay, Ohio	1		Norfolk, Va	1 2	3 1
Fitchburg, Mass	13	3 5	Norwich, Conn	íl	i
Flint, Mich	5 16	17	Oak Park, Ill.	7	4
Framingham, Mass	2	1, 1	Pasadena, Cal	6	î
Geneva, N. Y.	ĩ		Perth Amboy, N. J	2	3
Grand Rapids, Mich	7	6	Perth Amboy, N. J Philadelphia, Pa	159	68
Greenwich, Conn	8	4	Pigua Ohio	1	1
Hackensack, N. J.	6	5	Plainfield, N. J	2	2
Hartford, Conn	2	3	Pontiac, Mich	2	•••••••••••••••••••••••••••••••••••••••
Haverhill, Mass	25	7	Port Chester, N. Y	2	1
Henderson, Ky	5	3	Poughkeepsie, N. Y	2	6
Highland Park, Mich	13	7 3	Richmond, Va. Rochester, N. Y. Rome, N. Y.	17 .	•
High Point, N. C	5 2 .	3	Rome N V	2	
Hoquiam, Wash Hutchinson, Kans	1		Saginaw, Mich	2	9
Tthana N V	i i	i	Salem, Mass	13	9 7 2
Jamestown, N. Y	اۋ	2	Con Diogo Col	2	2
Jersey City, N. J.	9 .		Sandusky, Ohio	3	2
Joplin, Mo	11.	!!	San Francisco, Cal	24	17

PNEUMONIA—Continued.

City Reports for Week Ended Jan. 11, 1919—Continued.

Place.	Cases. Deaths.		Place.	Cases.	Deaths.
Sault Ste. Marie, Mich. Schenectady, N. Y. Siour Falls, S. Dak. Somerville, Mass. Sprinsfield, Mass. Stockton, Cal. Toledo, Ohio. Trenton, N. J. Utica, N. Y.	10 6 · 12 11 4	7 4 7 11 3 2	Waterbury, Conn. Watertown, Mass. Westfield, Mass. West New York, N. J. Wichita, Kans. Wilmington, Del. Winston-Salem, N. C. Yonkers, N. Y.	1 2 3	2 1 2 1 13 9 7

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for October and December, 1918.

Place.	New cases reported.	Place.	New cases reported.
California (October): Humboldt County San Francisco. Santa Barbara County— Santa Barbara Tulare County.	2	Nebraska (October): Buffalo County Custer County. Total. New Jersey (December):	1
Total	7	Middlesex County	1
Illinols (December): Bureau County— Arispie Township Morgan County— Meredosia precinct	1		2
Total	2	Ohio (December): Lucas County	1
Iowa (December): Hamilton County Kansas (December): Chautauqua County— Sedan (R. D.) Pratt County— Pratt Total Louisiana (December): Rapides Parish Maryland (December): Baltimore County— Chesaco Park Massachusetts (December): Essex County— Haverhill Topsfield (town) Suffolk County—	1	Pennsylvania (December): Allegheny County. Philadelphia County. Total. Virginia (December): Augusta County— Basic. Lee County. Nottoway County. Roanoke County— Salem. Scott County. Total.	1 1 1 1
Suffolk County— Chelsea Total	1 3	·	

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.	
Akron, Ohio Chicago, Ill. Dallas, Tox. Milwaukee, Wis	1 1 1 1		Newark, N. J. Richmond, Va. St. Louis, Mo.	1 1 1		

RABIES IN ANIMALS.

City Reports for Week Ended Jan. 11, 1919.

During the week ended January 11, 1919, rabies in animals was reported at Asheville, N. C.; Memphis, Tenn.; and San Antonio, Tex., 2 cases each.

SCARLET FEVER.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Cas	es.	Cas	:63.
Camp Bowie zone, Tex	1	Camp Pike zone, Ark	7
Camp Funston zone, Kans	2	Portsmouth-Kittery sanitary district, N. H.	
Gas and Flame School zone, Ga. and Ala	1	and Me.	1
Gulfport health district, Miss	2	Camp Sevier zone, S. C	1
Camp Joseph E. Johnston zone, Fla	1	Camp Sherman sone, Ohio	5
Camp MacArthur zone, Tex	1	Camp Zachary Taylor zone, Ky. and Ind	2
Camp Merritt zone, N. J	4	Tidewater health district, Va	1
Fort Oglethorpe zone, Ga. and Tenn	1	-	

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 214.

SMALLPOX.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Cases	s.	Cases		
Camp Bowie zone, Tex	1	Picric Acid Plant zone, Ga	2	
Gas and Flame School zone, Ga. and Ala	2	Camp Polk zone, N. C	1	
Gerstner Field zone, La	5	Camp Zachary Taylor zone, Ky. and Ind	1	
Camp Hancock zone, Ga	1	Tidewater health district, Va	1	
Camp Mc lellan zone, Ala	2	Camp Wadsworth zone, S. C	1	
Muscle Shoals sanitary district, Ala	2	Camp Wheeler zone, Ga	1	

State Reports for October and December, 1918-Vaccination Histories.

			Vaccination history of cases.				
Place.	Newcases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never suc- cessfully vaccinated.	Vaccination history not obtained or uncertain.	
California (October):							
Alameda County— Oakland	2	ļ	ļ	1	1		
Butte County—	-				•		
Chico	8			l	8		
Contra Costa County		• • • • • • • • • • • • • • • • • • • •		1	31		
Fresno County	3				3		
Fresno City	ĭ				1		
Glenn County	3			1	2		
Kern County	Ž				2		
Maricopa				!	1	•••••	
Kings County	1				1	· · · · · · · · · · · · · · · ·	
Los Angeles County					1		
Long Beach.	ī				1		
Los Angeles.	4.1				4		
NT			-	1	i		
Napa County— Napa	1				1		
Orange County-		1		1	į.		
Santa Ana	2			1	1 .	· · · · · · · · · · · · · · · · · · ·	
San Diego County—	· I	į		1			
San Diego County— San Diego,	1		!		1		
San Francisco.	3 1		!		3		
San Joaquin County					2		
Santa Clara County	1 [1 [.		
Palo Alto	2						
San Jose	2	. 			2 .		

State Reports for October and December, 1918—Vaccination Histories—Continued.

			,	nistory of cas	story of cases.		
	New cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vacci- nated more than 7 years preceding attack.	Number never suc- cessfully vaccinated	Vaccination history not obtained or uncertain.	
California (October)—Continued. Shasta County—							
ReddingSiskiyou County	3 6 1				3 6 1		
Solano County— Benecia Vallejo	8 12			1 5	7 7		
Stanislaus County Total	105			10	95		
Kansas (December):	100				93		
Allen County— Iola	10				10	.	
Atchison County— Atchison Butler County—	4				4	······	
Latham (R. D.)	8			2	6		
Clifton	1				1	••••••	
Crawford County— Girard (R. D.). Ellsworth County— Wilson (R. D.).	2				2		
Harvey County— Burrton	4				4		
Jewell County— Burr Oak (R. D.) Esbon (R. D.)	3				3		
Mankato	6				6 1		
Kingman County— Nashville (R. D.) Latette County—	6				6		
Logan County—	3				3	••••••	
Oakley Pratt County—	1				1	••••••••	
Pratt	5				5		
Munden Sedgwick County— Wichita.	1			1		••••••	
Wichita Sumner County— Oxford	1			• • • • • • • • • • • • • • • • • • • •	1	•••••••	
Wyandotte County— Kansas City	5				5		
Total	67			, 3	64		
Maryland (December): Dorchester County—							
Cambridge	1 1				1 1	·····•	
Hagerstown	. 5				5		
Total	7				7		
Michigan (December): Branch County— Bronson	1		,	1			
Charlevoix County— Boyne City	1					1	
Delta County— Escanaba	1					1	
Genesee County— Fenton Flint	2 1				i	2	

State Reports for October and December, 1918-Vaccination Histories-Continued.

				Vaccination history of cases.				
Place,	New case reported		Number vaccinate within 7 years pre ceding attack.	d last vacci	re never suc rs cessfully	history not obtained or		
Michigan (December)—Contd. Gogebic County—								
Ironwood	2	·		:	1	1		
Gratiot County— Hamilton Township	3					3		
Huron County— Dwight Township	3			1	· .	3		
Ingham County—	i		1	1				
Stockbridge Township Lansing			1	• •	13	l		
Iron County— Crystal Falls	1							
Jackson County—	L		1		Į.	. 1		
Jackson	2		1		- 2	······		
Vicksburg Kalamazoo								
Kalkaska County—	1		-			- 1		
Kalkaska Kent County—	1				. 1			
Grand Řapids	3		.		. 3			
Lenawee County— Adrian Township	4		İ		. 2	2		
Blissfield Township	1		.			. 1		
Dover Township Franklin Township	1 2			-				
Palmyra Township	1			-	. 1			
Raisin Township Riga Township	1					1		
Seneca Township Blissfield	2		1	. . <i></i>		. 2		
Clayton	2 2				2			
Marquette County— Marquette	1				1			
Muskegon County—	_			1	1			
Muskegon Heights Oakland County—	4	• • • • • • • • • • • • • • • • • • • •			4			
Pontiac	1			. 1				
Oceana County— Grant Township	1				1			
Saginaw County— Saginaw	1	1.0			1			
St. Joseph County— i	- 1			1	•			
Fabius Township Washtenaw County—	1	• • • • • • • • • • • • • • • • • • • •				. 1		
Sharon Township	1		 .		1			
Wayne County— Detroit	3				3			
Total	69			4	52	13		
<u> </u> =								
innesota (December): Anoka County—								
AnokaCarlton County—	1].		· · · · · · · · · · · · · · · · · · ·			1		
Carlton	1 .				1			
Knife Falls Township Clearwater County—	1 .		• • • • • • • • • • • • • • • • • • • •	1	••••••			
Popple Township	6 .				6			
Dakota County— Lakeville Township	1 .			1				
Dodge County— West Concord	9 .				9			
Freeborn County—	1		•••••					
Manchester Township Hennepin County—	1 .				1	•••••••		
Minneapolis	26 .	-		6	20			
West Minneapolis Bloomington Township	1 -	i			6			
97583°—19——4								

State Reports for October and December, 1918-Vaccination Histories-Continued.

·			,	accination l	nistory of cas	es.
Place.	New cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vaccinated more than 7 years preceding attack.		Vaccination history not obtained or uncertain.
Minnesota (December)—Contd.						
Kanabec County— Whited Township McLeod County—	1				. 1	
Hutchinson	1				1	
Marshall County— Warren	1				1	
Nobles County— Adrian	1				1	
Ottertail County— Perham	1				1	
Richville	3				3	
Polk County— Esther Township Ramsey County—	2		·····	······	2	· · · · · · · · · · · · · · · · · · ·
St. Paul Renville County—	93				93	
Rock County—	1				1	
Luverne Magnolia	5 1			1	4	i
Mound Township St. Louis County—	8				8	
Duluth Sibley County—	1	•••••	1			
Severence Township Wright County—	1				1	
Cokato Township Middleville Township	3				3 3	
Total	180		1	9	168	2
Ohio (December):						
Belmont CountyButler County	3 54		4	······2	2 16	· 1 32
Clinton County	4 22					4 22
Coshocton County	6	••••••			1	5
Cnyahoga County Defiance County	26 1	••••••			1	5 25 1 8
Fayette County	8					8
Franklin County Fulton County	1	•••••			1	•••••••
Hamilton County	9	••••••			3	1 6 2 2
Hardin County	2					2
Harrison County	2				,	2
Highland County	1	•••••			1 1	••••••
Hocking County	i					····i
Jefferson County	9				8	1 1
Lake CountyLorain County	1 37			• • • • • • • • • • • • • • • • • • • •	6	20
Lucas County	16	• • • • • • • • • • • • • • • • • • • •			11	29 5 9 15
Marion County	10				1	9
Montgomery County Muskingum County	21				6	15
Paulding County	7 6	•••••		1	1	5 6
Pike County	î					ĭ
Portage County	1				1	
Proble County	1 2					1 2
Sandusky County Scioto County	1	•••••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••••••••••••••••••••••••••••••••••••	Z
Seneca County	2				2	
Stark County	1					1
Warren County	7				7	
Total	265		. 6	3	70	186

State Reports for October, November, and December, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Illinois (December): Bureau County— Concord Township	1		Louisiana (December)—Con. Natchitoches Parish Orleans Parish	. 3	
Champaign County—	1 -	1	Quachita Parish		
Urbana	1		Rapides Parish	. 12	
Cook County—	3	1	Richland Parish	.] 4	
Chicago Hanover Township	ĭ		St. Landry Parish Vermilion Parish	.] 4	
Christian County—	l			ļ	
Taylorville Cumberland County—	3		Total	. 65	
Greene Township De Witt County—	1		Nebraska (October): Antelope County	. 1	
Rutledge Township	1		Box Butte County	. 1	
Fulton County—	_	1	Butler County	. 6	
Joshua Township Kane County—	1		Cass County	1 1	
Elgin	57		Custer County	1 1	
Elgin Township	i		Dawes County		
Knox County—			Douglas County	. 95	
Galesturg	2		Franklin County		
La Salle County— La Salle	,		Hooker County	1 7	
Logan County-	1		Lancaster County Madison County	3	
Oran Township Madison County—	1		Nemaha County	1 2	
Madison County—			Nucholls County	13	
Livingston	6		Red Willow County	3	
Montgomery County— Schram City	•		Sarpy County	1 2	
Morgan County—	20	••••••	Saunders County Scotts Bluff County	í	
Jacksonville	5		Seward County		
Jacksonville Precinct.	ĭ		York County	i	
Peoria County—					
Peoria Perry County—	3	•••••	Total	152	
St. Johns	1		Nebraska (November):		1
Rock Island County— Moline			Butler County Cass County	2 2	
Shelby County—	55		Colfax County	2	
Richland Township.	2		Custer County	2	
St. Clair County—	- 1		Douglas County	28	
East St. Louis	4		Garfield County	1	
Tazewell County—	-		Holt County	3 3	
Pekin Tremont Township	5		Lancaster County	23	
wayne county—	- 1		Lancaster County Madison County	1	
Barnhill Township	1		Nucholis County	10	
m-1-1			Scotts Bluff County	ì	• • • • • • • • •
Total	178		Seward County	1	
Iowa (December): Buena Vista County	1		Total	79	
Butler County			New Jersey (December):	_	
Carroll County			Burlington County	3	
Cerro Gordo County Clayton County			North Carolina (December):		
Dallas County			Bertie County	5	
Des Moines County			Cabarrus County	5	
Hardin County	1		Durham County		· · · · · · · · · · · · · · · · · · ·
Jasper County Linn County	2		Forsyth County	13	
Monona County	6	1	Guilford County		· · · · · · · · · · · · · · · · · · ·
Osceola County	7		Guilford County		
Polk County			Mecklenburg County	2	· · · · · · · · · · ·
Pottawattamie County			New Hallover County		· · · · · · · · · · · · · · · ·
Story County.			Robeson County Rockingham County	4	· · · · · · · · · · · · · · · · · · ·
Wapello County Washington County			Rowan County	1	· · · · · · · · · · · · · · · · · · ·
Webster County			Rutherford County	3	
<u> </u> -			Rutherford County Stanly County	1 .	
Total	86	1	wake County		
Louisiana (December): Acadia Parish	15 .		Total	97	
Allen Parish	2 .		North Dakota (December):	_	
Beauregard Parish			Cass County		• • • • • • • • •
Calcasieu Parish			Richland County	1.	
Jefferson Parish	1 .	:::::::	Total	2 .	
Lafayette Parish	î l.		=		

State Reports for October, November and December, 1918—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Pennsylvania (December): Mercer County— Greenville	8 25 14 3		Virginia (December)—Con. Pittsylvania County Rockingham County Sussex County Tazewell County— Pocahontas Wise County— Wise Wythe County Total Wyoming (December): Laramie County Carbon County	10 9 . 1 4 5 1	
Giles County— Newport. Isle of Wight County. King William County. West Point County. Norfolk County— Norfolk. Ocean View.	5 1 3 1 10		Natrona County Uinta County Albany County Total		- 1

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Adrian, Mich	12		Los Angeles, Cal.	2	
Akron, Ohio	3		Madison Wis	1	
Altoona, Pa	1		Marinette, Wis	1	
Asheville, N. C	1	1	Marshalltown, Iowa	3	
Atlanta, Ga			Milwaukee, Wis		
Battle Creek, Mich			Minneapolis, Minn	Ĝ	
Rirmingham, Ala	î		Nashville, Tenn		
Birmingham, Ala Bluefield, W. Va	i		New Orleans, La	î	
Brunswick, Ga	3		Norfolk Va	2	
Buffalo, N. Y			Norfolk, Va North Yakima, Wash	3	
hicago III			Oakland, Cal.	- 1	
hicago, Ill			Ogden, Utah	1	
incinnati, Ohio	10		Obleh ama City Oble	2	• • • • • • • •
leveland, Ohio	12		Oklahoma City, Okla	7	
colorado Springs, Colo			Omaha, Nebr	6	
council Bluffs, Iowa	5		Oshkosh, Wis	4	· · · · · · · · ·
Denver, Colo	7		Pekin, Ill	9	
es Moines, Iowa	3		Pittsburgh, Pa	1	
Detroit, Mich	5		Portland, Oreg	4	
Ourham, N. C	1		Koanoke, va	2	
au Claire, Wis	1	l	Rock Island, Ill	1	
Glgin, III	7		St. Joseph, Mo	3	
airmont, W. Va	1		Salt Lake City, Utah	i i	
ort Dodge, Iowa	ī		San Francisco, Cal	7	
ort Worth, Tex	ī		Seattle, Wash	ă l	••••••
reeport, Ill	ĩ		Sharon, Pa.	- il	••••••
rand Rapids, Mich	ż		Sioux City, Iowa	î	• • • • • • • •
reeley, Colo	2		Sioux Falls, S. Dak	5	· · · · · · · · · ·
Iammond, Ind.	2		South Bend, Ind	- 1	
Iouston, Tex	í		Spokane, Wash	1	
ndianapolis, Ind			Superior, Wis	1 1	
Colomoroo Mich			Malada Ohio	3 1	
Calamazoo, Mich	3		Toledo, Óhio	7.1	
Kansas City, Mo	5		Wilkinsburg, Pa	1	
incoln, Nebr	3		Winston-Salem, N. C	8	
ong Beach, Cal	2		Zanesville, Ohio	1 1	

SYPHILIS.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Cas	ses.	[Cas	es.
Camp Bowie zone, Tex	1	Muscle Shoals sanitary district, Ala	8
Charleston sanitary district, S. C	1	Fort Oglothorpe zone, Ga. an l Tenn	9
Camp Doniphan zone, Okla	1	Pieric Acid Plant zone, Ga	7
Camp Eberts zone, Ark	1	Camp Pike zone, Ark	5
Fayetteville sanitary district, N. C	1	Portsmouth and Norfolk County health dis-	
Camp Greene zone, N. C	5	trict, Va	1
Gulfport health district, Miss	1	Camp Sheri lan zone, Ala	5
Camp Humphreys zone, Va	1	Camp Sherman zone, Ohio	2
Camp Jackson zone, S. C	6	Camp Zachary Taylor zone, Ky. and Ind	34
Camp Joseph E. Johnston zone, Fla	16	Tidewater health district, Va	3
Camp Lee zone, Va	2	Camp Travis zone, Tex	5
Canp McClellan zone, Ala	3		

TETANUS.

City Reports for Week Ended Jan. 11, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio. Birmingham, Ala. Kansas City, Mo	1	1 1	Memphis, Tenn	1	·····i

TUBERCULOSIS.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Case	es.	Cas	ses.
Camp Bowie zone, Tex	3	Camp MacArthur zone, Tex	1
Charleston sanitary district, S. C	2	Camp McClellan zone, Ala	1
Camp Devens zone, Mass	2	Camp Merritt zone, N. J	2
Camp Dix zone, N. J	2	Portsmouth and Norfolk County health dis-	
Gas and Flame School zone, Ga. and Ala	3	trict, Va	3
Camp Greene zone, N. C	1	Camp Zachary Taylor zone, Ky. and Ind	10
Gulfport health district, Miss	2	Camp Travis zone, Tex	
Camp Jackson zone, S. C	1	Vancouver zone, Wash	
Camp Joseph E. Johnston zone, Fla	5	Wilmington sanitary district, N. C	
			1

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 214.

TYPHOID FEVER.

Cases Reported in Extra-Cantonment Zones, Week Ended Jan. 25, 1919.

Cas		Cas	
Camp Bowie zone, Tex	1	Muscle Shoals sanitary district, Ala	1
Charleston sanitary district, S. C	1	Camp Polk zone, N. C	3
		Camp Travis zone, Tex	
Camp Lee zone, Va	1	Wilmington sanitary district, N. C	2

TYPHOID FEVER—Continued.

State Reports for October, November, and December, 1918.

Place.	New cases reported.	Place.	New cases reported.
California (October):		Kansas (December):	
Alameda County-		Bourbon County—	1
Alameda	3	Mapleton (R. D.)	.] 1
Berkelev	1	Butler County—	1
Oakland	15	Augusta. El Dorado (2 R. D.).	. 1
Butte County—		El Dorado (2 R. D.)	. 5
Chico	4	1 10011 (16. 10.)	., .
Contra Costa County	1	Midian.	. 2
Martinez	3	Cherokee County—	١.
Fresno County	2 3 2 8 1	Baxter Springs Coffey County—	1
Imperial County	9	Burlington	1
Imperial CountyEl Centro.	9	Douglas County—	1
Kern County	ï	Lawrence	. 2
Taft	ī	Linn County—	_
Kings County	ī	Pleasanton	2
Lassen County	1	Logan County—	i
Los Angeles CountyGlendale	1	Russell Springs	1
Glendale	.1	Marshall County—	
Los Angeles	12	Irving	1
Long Beach Orange County—	2	Montgomery County—	
Anahaim		Independence	
AnaheimRiverside County	1	Sedgwick County—	3
Perris	i	Wabaunsee County—	3
Riverside	3	Eskridge (R. D.)	2
Sacramento County—	ŭ	Wyandotte County—	-
Sacramento	4	Kansas City	2
San Benito County	ī		
San Bernardino County	2	Total	27
San Diego County—			
Escondido	1	Louisiana (December):	
San Diego.	3	Ascension Parish	1
San Francisco.	7	Avovelles Parish	2
San Joaquin County	2	Caddo Parish	4
Stockton	4	Avoyelles Parish Caddo Parish Calcasieu Parish	ź
Santa Barbara	3	Iberia Parish	2 1
Santa Maria	i	Iberville Parish	5
Santa Cruz County—	- 1	Jackson Parish	3 1
Santa Cruz	2	Jefferson Parish	1
Siskiyou County—		Jefferson Davis Parish	1
Dunsmuir	1	Lafourche Parish	ī
Sonoma County	1	Orleans Parish	1 1 3 6
Stanislaus County—	_	Ouachita Parish	ĭ
OakdaleTulare County	1	Rapides Parish	2
Ventura County—	1	Red River Parish	2 1
Santa Paula	•	Richland Parish	1
. Santa I aula	1	St. John Parish	1 4 2 2 1
Total	103	St. Landry Parish St. Tammany Parish Tangipahoa Parish	4
=		St. Tammany Parish	2
Illinois (December):	l	Tangipahoa Parish	2
Adams County—	1	Terrebonne Parish	
Quincy	3	Vermilion Parish Vernon Parish	1
Cook County—	11	vernon ransn	3
Chicago	13	Total	49
Jackson County—		10001	
De Soto Township	2	35 3 3 25	
Lake County— North Chicago.	. 1	Maryland (December):	10
Madison County—	1	Baltimore City	15
Alton	1	Allegany County— Westernport	2
Edwardsville	il	Luke	î
Morgan County-	*	Anne Arundel County—	-
Jacksonville	1	Jacobs Hill	1
Randolph County—	-	Millersville	2
Sparta	1	Brooklyn	3
Rock Island County—	- 11	Baltimore County—	
Moline	2	Parkton	2
Rock Island	4	Highlandtown	1 1 1 1 1 1 6
St. Clair County—	_	Essex	1
Belleville	1	Violetville	1
Will County— Joliet	. #	Catonsville	1
JUIRT	1	Halethorpe, R. D	1
Total	31	Stevenson	Ė

State Reports for October, November, and December, 1918—Continued.

TYPHOID FEVER—Continued.

Place.	New cases reported.		New cases reported.
Maryland (December)—Continued.		Massachusetts (December)—Continued.	
Carolina County-	İ	Middlesex County—	i
Hillsboro, R. D. Hollandsville, R. D. Ridgely, R. D.	1	Cambridge	1
Hollandsville, R. D	1	Everett	2
Ridgely, R. D	1	Everett. Natick (town). Newton.	1
Cech County-		Newton	1
Providence	1	Norfolk County—	. ا
Charles County— Indianhead	2	Cohasset (town)	1
Pomfret	2		2
Pomfret	4	Rrockton County	1
Rison	i	Brockton	
Mason Springs	î	Suffolk County—	
Dorchester County—	-	Boston	6
Wingate	1	Boston. Chelsea	ì
Andrews. Bishops Head	1	Worcester County—	•
Bishops Head		Athol (town)	1
Cambridge	4	Blackstone (town)	· ī
Cambridge	3		
Airey	1	Total	44
Hurlock	1		
Frederick County—		Michigan (December):	
Knoxville	1	Bay County—	
Brunswick, R. D	. 1	Bay City	1
Harloid County—		Berrien County—	
Havre de Grace Kent County—	3	Chinners County	1
Kent County— Chestertown		Coult Sto Mario	
Montgomery County-	1	Bay city Berrien County— Watervleit Chippewa County— Sault Ste. Maric. Eaton County—	1
Montgomery County— Fairland Cloppers Prince Georges County—	1	Grand Ledge	1
Cloppers	î	Genesce County—	
Prince Georges County-	•	Flint	1
Branchville	3	Hillsdale County—	•
Oueen Annes County-	•	Jefferson Township	1
Centerville	1	Houghton County-	-
Centerville, R. D	1	Laird Township	1
Centerville	1	Laird Township Ingham County— Onondaga Township	_
		Onondaga Township	1
Hopewell, R. D	1	Kalamazoo County-	
Hopewell	1	Kalamazoo	1
Doughertytown	1	Kent County—	_
Crisheld	1	Grand Kapids	2
Hopewell, R. D. Hopewell Doughertytown Crisfield Crisfield, R. D	1	W young Township	. 1
Talbot County—		Lapeer County—	1
Chapel Washington County— Bakersville Millstone Sharpsburg Hancock Hazerstown Antietam	1	Lapeer Lenawee County— Fairfield Township	
Rekereville	1	Fairfield Township	1
Millstone	î	Tecumseh	4
Sharpsburg	î	Livingston County—	•
Hancock	ĩ	Howell	1
Hagerstown	1	Midland County— Ingersoll Township	_
Antietam	1	Ingersoll Township	5
Wicomico County-		Oakland County—	
Parsonsburg, R. D	1	Holly	1
Bivalve	1	Osceola County—	_
Nanticoke	1		1
Worcester County—	- 1	St. Clair County— Port Huron Township Marine City	
Snow Hill	1	Port Huron Township	į
(Total	95	Wayne County—	1
Total		Detroit	5
[assachusetts (December):		Wyandotte	ĭ
Bristol County—	1		
Fall River	6	Total	34
New Bedford	ĭ	=	
Essex County—	- 11	Minnesota (December):	
Beverly	1	Anoka County—	
Gloucester	1	Anoka	1
Gloucester Lawrence	1 3	Bigstone County— Prior Township.	_
Lynn	1 11	Prior Township	1
Lynn Lynnfield (town)	1	Chippewa County— Montevideo	
Methuen	1	Montevideo	1
Peabody	3	Hennepin County—	2
Methuen Peabody Rockport (town). Rowley (town). Hampshire County—	1	Minneapolis	1
rowiey (town)	4	Ramsey County— St. Paul	. .
		Ramsey County-	

TYPHOID FEVER—Continued.

State Reports for October, November, and December, 1918-Continued.

Place.	New cases reported.	Place.	New case reported
Minnesota (December)—Continued.		North Carolina (December)—Continued	1
Rice County— .	l	North Carolina (December)—Continued New Hanover County	10
Faribault	2	Perquimans County	1 -
St. Louis County—	-	Person County	1 3
Hibbing Stearns County—	2	Pitt County	
Stearns County—	l	Randolph County	1
St. Cloud	2	Robeson County	•
		Rockingham County	1
Total	14	Person County Pitt County Randolph County Robeson County Rockingham County Sampson County Sampson County Scotland County Wake County Wayne County Wilkes County Wilkes County Wilkes County	
Nahmaalaa (Ootaham).		Sampson County	1 :
Nebraska (October):	1	Walta County	1 2
Adams CountyBrown County	l 4	Waxe County	1
Cheyenne County Custer County Dixon County Dodge County Douglas County	1 7	W.lkes County	:
Custer County	l î	Wilson County.	1
Dixon County	2	William County	
Dodge County	l î	Total	81
Douglas County	3		<u> </u>
Dundy County	ľ	Ohio (December):	
Franklin County	l î	Adams County	15
Dundy County Franklin County Furnas County Jefferson County Veros County	5	Ashland County	
Jefferson County	ĭ	Ashland County Ashtabula County	22 22 17 22 22 22 22 22 22 22 22 22 22 22 22 22
Knox County	1 2	Auglaize County	7
Lancaster County	1 1 2 1 3 1 1 5 1 2 2 1	Belmont County	2
Lincoln County	1	Butler County	
Knox County Lancaster County Lincoln County Merrick County	1	Anglaize County Belmont County Butler County Clinton County Cohumbiana County	
Scotts Bluff County	3	Columbiana County	2
	l	II CIBWIDIU COUILV	1
Total	30	Cuyahoga County Fairfield County	7
	=====	Fairfield County	2
Nebraska (November):		Gallia County.]
Collax County	2	Guernsey County	. 2
Colfax County Knox County Lancaster County	5 2	Guernsey County Hamilton County Hardin County Harrisen County	. 2
Platte County	1	Hardin County	
Scotts Bluff County	i	Hanry County	1
Scotts Dian County	1	Highland County	9
Total	11	Lawrence County	4
10041		Harrisch County Henry County Lawrence County Licking County Logan County Lorain County Lucas County Mahoning County Meier County	9
lew Jersey (December):		Logan County	- 1
New Jersey (December): Atlantic County	1	Lorain County	i
Bergen CountyBurlington County	- 6	Lucas County	1 2 1 2 1 2 2 1 1 1
Burlington County	4	Mahoning County	1
Camden County. Cumberland County Essex County Hudson County.	5	Meigs County Mercer County Minail County Ross County	2
Cumberland County	3	Mercer County	1
Essex County	2	Miami County	2
Hudson County	6	Ross County	2
MARCER COUNTY	1	Sandusky County Seneca County Shelby County Stark County Summit County	1
Middlesex County Monmouth County Union County	.1	Seneca County	1
Monmouth County	11	Shelby County	1
Omon County	3	Stark County	1 4
Total	43	Trumbull County	4
1 Uva:		Tuscarawas County	1
Iorth Carolina (December):		Union County	1 1 5 1
North Carolina (December): Alexander County	1	Union County. Van Wert County.	1
Anson County Anson County Beaufort County Caldwell County Carteret County Catawba County Chatham County Chowson County	î l	Warren County.	1
Beaufort County	î l	Warren County	$\hat{2}$
Caldwell County	2	i -	
Carteret County	1	Total	86
Catawba County	1	l	
Chatham County	1	Pennsylvania (December):	_
Chowan County	1	Adams County	. 3
Cleveland County	1	Allegneny County	20
Columbus County	2	Armstrong County	7
Chatham County. Chowan County. Cleveland County. Columbus County. Craven County. Duplin County. Durham County. Durham County. Forsyth County.	<u> </u>	Armstrong County Bedford County Berks County Berks County Blair County	1
Durham County	1 1	Rlair County	2
Forsyth County	3	Bradford County	ž
Goston County	1 1	Bradford County Butler County Cambria County Center County	14
Gaston County Gates County Graham County	5	Cambria County	14
Graham County	í	Center County	î
Guilford County.	2	Chester County	å
Iredell County		Clarion County.	3
Guilford County Iredell County Jackson County	2	Crawford County	i
Johnston County	1 1 2 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2	Chester County Clarion County Crawford County Cumberland County	30 77 12 26 14 11 66 31 43 55
Mecklenburg County Nash County	2	Dauphin County	3

TYPHOID FEVER—Continued.

State Reports for October, November, and December, 1918—Continued.

Providence	Place,	New cases reported.	Place.	New cas reported
Fare County	Pennsylvania (December)—Continued.		Virginia (December)—Continued.	
Fayette County	Erie County	3	Alleghany County-	
Franklin County	Fevette County		Torden Mines	
Fulton County	Franklin County		Appomettor County	
Huntingdon County	Fulton County			
Juniata-County	Fullon County			
Juniata-County	Huntinguon County			
Lancaster County	Jenerson County	4		
Lebanon County	Juniata County		Caroline County	1
Lehigh County	Lancaster County		Carroll County—	1
Lehigh County	Lebanon County		Laurel Fork	1
Luzerne County	Lehigh County	1	Floyd County	
Monroe County				
Montgomery County	Monroe County		Hanavar County	
Montour County	Montgomory County	2	Tomas City County	
Northumberland County	Montgomery County	3	James City County—	
Perry County	Montour County	4	Williamsburg	
Philadelphia County	Northumberland County	1	King William County—	
Schuylkfill County	Perry County		West Point	
Total	Philadelphia County	13		
Total	Schuylkill County	4		
Total	Snyder County	2	Mathews County	
Total	Somerset County	2	Montgomery County	
Total	York County	- 1	Norfolk County	
Total	TOTA COUNTY	1	Northampton County	
Cordonsville Pulaski County Roanoke County	Total [176	One of County	
Abbeville County 2	10(8/	1/0		
Providence	1. 4. T-1 1 (D 1)			
Smithfield (town)	node Island (December):	_ 1		
Roanoke Roanoke Roanoke Russell County Scott County Scott County Southampton County Sussex County Yale Tazewell County Providence		Roanoke County—		
Roanoke Roanoke Roanoke Russell County Scott County Scott County Southampton County Sussex County Yale Tazewell County Smithfield (town)	1	Vinton		
Scott County SouthAmpton County Sussex C	ŀ		Roanoke	
Scott County SouthAmpton County Sussex County Sussex County Yale Spartanburg County 1 Spartanburg County 1 Spartanburg County 5 Total 1 Spartanburg County Sussex County S	Total	3	Russell County	
Southampton County	<u> </u>		Scott County	
Abbeville County	outh Carolina (December):	1	Southampton County	
Charleston County	Abbeville County	2	Sussex County	
Greenville County	Charleston County	ī	Vale	
Richland County	Greenville County	ē.	Torowall County-	
York County	Richland County		Flat Con	
York County	Cnortenhure County	1	Titachineten County	
Total	Vanla County	4	washington County	
Total	1 Ork County	9		
ermont (December): Burlington	· · · · · · · · · · · · · · · · ·		Wise County-	
ermont (December): Burlington	Total	17		1
Burlington	 =		St. Paul	
Burlington	ermont (December):	- {	t-	
irginia (December): Albarraelo County Wyoming (December):	Burlington	1	Total	56
rginia (December): Albertaria County	-			
Albamarla County	rginia (December):	- 1	Wyoming (December):	
	Albemarle County—	. (1	Uinta County	1
Scottsville 1	Scottsville	. 1	Canva County	•

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md. Beaver Falls, Pa. Berkeley, Cal. Birmingham, Ala. Boston, Mass. Buffalo, N. Y. Butler, Pa. Cairo, Ill. Chicago, Ill. Cleveland, Ohio. Coatesville, Pa. Colorado Springs, Colo. Columbus, Ohio. Detroit, Mich. Fairmont, W. Va. Flint, Mich. Framingham, Mass. Haverhill, Mass. Houston, Tex. Kalamazoo, Mich.	1 1 2 1 2 40 1 1 1 1	1 1 1	Salem, Oreg. San Antonio, Tex. Sault Ste. Marie, Mich. Seattle, Wash. Somerville, Mass. Spokane, Wash.	1 13 3 15 3 4 3 3	2 1 1 1 1 1 1 1 1 1 1 2 2

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS. State Reports for October, November, and December, 1918.

	Cases reported.			
State.	Diph- theria.	Measles.	Scarlet fever.	
California (October) Illinois (December) Jowa (December) Lowa (December) Kansas (December) Kansas (December) Maryland (December) Massachusetts (December) Michigan (December) Michigan (December) Minnesota (December) Morbraska (October) Nebraska (October) Nebraska (November) North Carolina (December) North Carolina (December) North Dakota (December) North Dakota (December) Pennsylvania (December) South Carolina (December) Pennsylvania (December) Vernonina (December) Vernonina (December) Vermont (December) Vermont (December) Vermont (December) Virginia (December)	388 695 76 90 29 162 584 709 365 80 32 479 129 399 399 1, 201 140 94	495 173 90 146 174 346 63 26 16 89 38 2 396 565 5 5 3 3 219	192 207 207 211 213 333 349 127 33 22 273 65 8 8 340 530 50 70 4 1 1	

•	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		rlet er.		ber- osis.
City.	(estimated by U. S. Census Bureau).	all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Adams, Mass. Adrian, Mich Akron, Ohio Alameda, Cal Alexandria, La. Allentown, Pa Alton, Ill. Altoona, Pa. Ann Arbor, Mich Appleton, Wis Arlington, Mass Asheville, N. C. Ashtabula, Ohio Atlanta, Ga. Atlantic City, N. J. Attleboro, Mass Auburn, N. Y. Austin, Tex. Bakersfield, Cal Baltimore, Md Barre, Vt Battle Creek, Mich Bayonne, N. J. Beatrice, Nebr Beaure Falls, Pa. Bedord, Ind Bellaire, Ohio Belleville, N. J.	14, 406 11, 570 93, 604 28, 433 16, 232 65, 109 23, 783 59, 712 15, 041 18, 005 22, 008 196, 144 59, 515 19, 776 37, 823 35, 612 17, 543 594, 637 12, 401 12, 401 10, 437 28, 851 11, 575 11, 749 10, 613 14, 575 11, 797	4 1 1 47 33 6 6 14 8 8 8 12 19 13 14 11 11 279 4 4 4 11 10 222	2 2 10 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 2 2 2 1 1 2 2 8 1 1 1 1 1 1 1 1 1 1 1		2 3 3	1 1 28
Beloit, Wis. Benton Harbor, Mich Berkeley, Cal Berlin, N. H Beverly, Mass. Biddeford, Me Billings, Mont Binghamton, N. Y Birmingham, Ala.	18,547 11,099 60,427 13,892 22,128 17,760 15,123 54,864 189,716	2 4 42 9 16 9 15 14	1 1	1	1		1 2 1		1 5 6	5 1 3

City Reports for Week Ended Jan. 11, 1919-Continued.

	Popula- tion as of July 1, 1917	Total death.	11 -	htheri	a. N	fea sles.		carlet ever.		uber- ilosis.
City.	(estimated by U. S. Census Bureau).	from all causes	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Bloomfield, N. JBluefield, W. Va	19,013 16,123	1	1						.]	
Bluefield, W. Va Boise, Idaho	16,123	22	.		•-		2	·	-	
Boston, Mass	767, 813	478	67		i ' i	i	i 37	i	67	26
Boston, Mass Boulder, Colo Braddock, Pa Brazil, Ind	12,012		· ····;	·			3		· ····	
Brazil, Ind.	10, 472	2	. 1	.]:::::	: ::::	:: :::::				
Bridgeport, Conn	35, 951 767, 813 12, 012 22, 060 10, 472 124, 724 16, 318	69	9	ļ <u>.</u>		4			. 3	6
Bristol, Conn Brockton, Mass Brookline, Mass Brunswick, Ga. Buffalo, N. Y Burlington, Iowa Burlington, Vt. Butler Pe	69,152	6 25		. 1					1	1 2
Brookline, Mass	33, 526	15	2	1		1			i	
Brunswick, Ga	10, 984 475, 781 25, 144	6 189	53	8		8	16	2	19	1 9
Burlington, Iowa	25, 144	4			-1]				
Burlington, Vt	21,802 28,677	• • • • • • • •	i		1 2	2		·	ļ	
Butte, Mont	44 057		<u>.</u>				. i		13	
Butler, Pa. Butter, Mont. Cairo, Ill. Cambridge, Mass. Camden, N. J. Canton, Ohio.	15, 995 114, 293 108, 117	8 48	5		· ·····		4		5	1 1
Camden, N. J.	108, 117		5		. i		. 6		3	ļ <u>.</u>
Canton, Ohio	62, 566 15, 052	27			.∣ €	i	. 1			
Charleston, S. C.	61 041	6 45	4		: :::::		: ::::::			2
Canton, Ohio. Champaign, Ill Charleston, S. C. Charleston, W. Va. Charlotte, N. C. Chelsea, Mass. Chester, Po.	31,060 40,759 48,405	16	1		-		1 2			1 2 3 1
Chelsea, Mass	40,759	19 20	1		. i	1	. 2			i
Chester, I d					. 2	:			3	
Chicago, Ill	2,547,201	919 7	114 5	11	62	4	42	3	240 1	74 1
Cincinnati, Ohio	414, 248	135	12	1	2		. 3			14
Clarksburg, W. Va	2,547,201 29,950 414,248 12,960 692,259	243	3 29	1 4	···ii	· · · · i			23	21
Clinton, Mass.		8			.	.]				
Cohoes N V	14,998	2	1		. 1				•••••	• • • • • •
Colorado Springs, Colo	14,998 25,292 38,965	20					<u>.</u>		2	3
Chicago, Ill Chicago, Ill Chicopee, Mass. Cincinnati, Ohio Clarksburg, W. Va Cleveland, Ohio Clinton, Mass Coatesville, Pa Cohoes, N. Y Colorado Springs, Colo Columbia, S. C. Columbia, S. C.	35, 165 220, 135	83	3 2		3		2		1 5	8
Columbus, Ohio Concord, N. H. Corpus Christi, Tex. Council Bluffs, Iowa. Covington, Ky	22 858 (11			.					
Coupeil Bluffs Jowa	10,789	2 11	5						•••••	•••••
Covington, Ky	31,838 59,623	16	2						1	i
Cranston, R. I.	59, 623 26, 773	11	2 2		6	-	1 2		····i	•••••
Cranston, R. I. Cumberland, Md. Dallas, Tex Danville, Ill Dayton, Ohio Decetur, Ill	26,686 129,738	7 61			ì		2			4
Danville, Ill.	32.969	10		· · · · · ·						• • • • •
Dayton, Ohio	20, 183 128, 939	7 43	····i		i	1	5		···i	
Decatur, Ill	41,483	22 3				.				1
Denver. Colo	10, 618 268, 439	3	3		2		6			15
Dectatur, III Dedham, Mass. Denver, Colo. Des Moines, Iowa Detroit, Mich	268, 439 104, 052 619, 648 40, 096		3	.2	4	····i	6 43	····i	33	20
	40,096	330	72	12 1	3	1	1			
Duluth Minn	97,077	26	12	3					3	1
Durham, N. C. East Chicago, Ind.	26, 160 30, 286	12 15	1	2						
	13,864 .		2	• • • • • •			1	• • • • • • • • • • • • • • • • • • • •	٠٠٠.	••••
East Orange, Pa. East Orange, N. J. Eau Claire, Wis	30, 854 . 43, 761	7	3		····i		····i	::::: <u> </u>	6	
Eau Claire, Wis	18 870						2			••••
Elgin, Ill. Elizabeth, N. J. Elmira, N. Y. Englewood, N. J.	28, 562 88, 830	4	4		·····2		8	::::: ·	6	6
Elmira, N. Y	38, 272	18	î į		ī		ĭ	i.		•••••
Englewood, N. J Erie, Pa	12,603 76,592	4	4				2		12	• • • • •
Escanaba, Mich	15,854	12					:			••••
Eureka, CalEvanston, Ill	15,142 29,304	3	2		•••••				·····	•••••
Everett, Mass.	40, 160	16			1	1	1		21	••••

¹ Population Apr. 15, 1910.

City Reports for Week Ended Jan. 11, 1919—Continued.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria	Mea	sles.		rlet ver.		ber- losis.
City.	(estimated by U. S. Čensus Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Everett, Wash	37, 205 129, 828		3		. 8	ļ	1 3			
Fargo, N. Dak	17,872	3			: °.				5	3
Findlay, Ohio	1 14, 858	4	1	····i	· <u>;</u> -					
Fall River, Mass. Fargo, N. Dak. Findlay, Ohio Fitchburg, Mass. Filmt, Mich	48,119 57,386	19 14	5	1	1				2	2
Fond du Lac, Wis	57,386 21,486	. 9					1			
Fort Dodge, Iowa Fort Wayne, Ind Fort Worth, Tex Fostoria, Ohio Framingham, Mass Frederick, Md Freeport, Ill Fresno, Cal Galesburg, Ill Galveston, Tex Geneva, N. Y Grand Rapids, Mich Green Bay. Wis	21,039 78,014	14	2	····i	-		1			
Fort Worth, Tex	109, 597	35	ļ	<u>.</u>					····i	li
Fostoria, Ohio	10,959	4							1	
Framingnam, Mass	14,140 11,22 5	8	i				11	;	1	•••••
Freeport, Ill	19,84	10 30	2							i
Fresno, Cal	36,314 24,629	i 30			3	!			1	ļ <u>2</u>
Galveston, Tex	42,650	13							····i	····i
Geneva, N. Y	13,915	4	2	••••	. 1					
Green Bay. Wis	132, 861 30, 017	28 20	Z		1		3	••••	1	3
0 0.13 35	12, 251	4	2				1			
Greensboro, N. C. Greensburgh, Pa. Hackensack, N. J. Hammond, Ind	20, 171 15, 881	5		ļ		•••••	i	•••••		1
Hackensack, N. J.	17,412	10							1	
Hammond, Ind	27,016	12								
Harrisburg, Pa	73, 276 112, 831		·····2		1 23	•••••	12	•••••	3	
Hammond, Ind. Harrisburg, Pa. Hartford, Conn. Haverhill, Mass. Henderson, Ky. Highland Park, Mich. High Point N. C.	49, 180 12, 312	24	3						5	1
Henderson, Ky	12,312 33,859	6 12	5				2			
High Point. N. C	13, 439	3	i				2		1 2	
Hoboken, N. J	78, 324	24	4	1	3		2		2	î
High Point, N. C. Hoboken, N. J. Holland, Mich Holyoke, Mass Houston, Tex Hudson, N. Y. Hutchinson Kans	12, 459 66, 503	4 18	•••••	•••••	i	•••••	····i	•••••	2	••••••
Houston, Tex	116,878	64								1 3
Hudson, N. Y	12, 898 21, 461	8		• • • • • •						1
Hutchinson, Kans Independence, Mo Indianapolis, Ind	11.964	2	i				····i			•••••
Indianapolis, Ind	283, 622 15, 095	115	28	3	4		19		3	6
Ironwood, Mich	16,017	11 7		•••••			2		····i	•••••
Jamestown, N. Y	37, 431	7	7		1					i
Janesville, Wis	14,411 312 557	10	38	• • • • • •		•••••		•••••		1
Ithaca, N Y Jamestown, N. Y Janesville, Wis. Jersey City, N. J. Johnstown, N. Y Johnstown, Pa Johnstown	312,557 10,678	3	- 30				. 10		8	•••••
Johnstown, Pa	70, 473		10				1			•••••
Johnstown, Pa. Joplin, Mo. Kalamazoo, Mich. Kankakee, Ill.	33, 400 50, 408	21	1	•••••			i		4	·····i
Kankakee, Ill	14, 270 102, 096						ī			.
Kansas City, Kans Kansas City, Mo Kearny, N. J Kenosha, Wis	102, 096 305, 816	115	4	i	1 1	•••••	4	····i	1	·····à
Kearny, N. J	24, 325	12		····•			3		2	
Kenosha, Wis	32,833	10	1	•••••	1		1	•••••		••••••
Knoxville, Tenn Kokomo, Ind Lackawanna, N. Y	59,112 21,929	11			2		2		1	i
Lackawanna, N. Y	16, 219	13	1		28	2				.
La Crosse, WIS	31,835 21,481	8	•••••	•••••			2	•••••	•••••	·····;
Lakewood, Ohio	23,813	9	i							· · · · · · ·
La Crosse, Wis. La Fayette, Ind. Lakewood, Ohio. Lancaster, Ohio. Lancaster, Pa.	16,086 51,437		····i		12	•••••	1			1
Lawrence, Kans Lawrence, Mass Leavenworth, Kans Lima, Ohio Lino, Nebr. Linolin, Nebr.	13,477	2	il	::::::	12					· · · · · · ·
Lawrence, Mass	102, 923 19, 363	67					1		5	7
Lima. Ohio	19, 363 37, 145	3 13	2 2			•••••	3	····- ·	····· ·	•••••
Lincoln, Nebr	40,957	12	2 2	1			3			•••••
Lincoln, R. I	10, 473] .			2					
Little Rock Ark	50 71A I	11 1			1 '					
Little Rock, Ark. Logansport, Ind. Long Beach, Cal.	58, 716 21, 338 29, 163	11 9 15			3 .		8 .	::::	5	1

¹Population Apr. 15, 1910.

City Reports for Week Ended Jan. 11, 1919-Continued.

	Popula- tion as of July 1, 1917	Total deaths	1 -	theria.	Mea	asles.	Sca	arlet ver.	Tu	uber- dosis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Long Branch, N. J. Lorain, Ohio. Los Angeles, Cal Louisville, Ky. Lowell, Mass.	15, 733 38, 266 535, 485 240, 808 114, 366	328 76 49	2 16 7 3	4 2	1 7 2 11		1 7 2 7		29 5 8	1 9
Lorain, Ohio Los Angeies, Cal Louisville, Ky Lowell, Mass. Lynchburg, Va Lynn, Mass Madison, Wis Mahanoy City, Pa Malden, Mass Manchester, Conn	33, 497 104, 534 31, 315 17, 709 52, 243 15, 859	26 34 19 30 4	1 3	1	7		3 2 2 2 2	i		4
Manchester, N. H. Manitowoc, Wis. Marinette, Wis. Marion, Ind. Marquette, Mich. Mason City. Iowa	79,607 13,931 1 14,610 19,923 12,555 14,938	27 9 6 6 3 6	3 1 3		1 1 4		7 3	1	1	1
Madison, Wis Mahanoy City, Pa Malden, Mass Manchester, Conn. Manchester, Conn. Manchester, N. H. Manitowoc, Wis Marinette, Wis. Marinot, Ind. Marquette, Mich Mason City, Iowa Medford, Mass Melrose, Mass Melrose, Mass Melrose, Mass Milwaukee, Conn. Methuen, Mass. Middletown, N. Y Milford, Mass Milwaukee, Wis. Minneapolis, Minn Mishawaka, Ind. Missoula, Mont Mohile, Ala. Monessen, Pa Montclair, N. J. Montgomery, Ala Morgantown, W. Va Morristown, N. J. Mount Vernon, Ill Muskogee, Okla Nashua, N. H	26, 681 17, 724 151, 877 29, 431 14, 320 15, 890	. 21 6 78	2 2 3		10		1 2 2		18 18 1	8 2
Milford, Mass Milwaukee, Wis. Minneapolis, Minn Mishawaka, Ind Missoula, Mont Mobile, Ala	14, 280 445, 008 373, 448 17, 083 19, 075 59, 201	10 130 122 3 17 35	10 20	3 2	1		18 12 4	2 2	29 8	6 8 1 1
Monessen, Pa. Montclair, N. J. Montgomery, Ala. Morgantown, W. Va. Morristown, N. J. Mount Vernon, Ill	23, 070 27, 087 44, 039 14, 444 13, 410 10, 043	25 3 12 13	3 		1		2		2 1	1 1 1 1
Mount Vernon, Ill Muskogee, Okla Nashua, N. H. Nashville, Tenn Newark, N. J. New Bedford, Mass New Britain, Conn Newburgh, N. Y. Newburyport, Mass New Haven, Conn New Orleans, La. New Philadelphia, Ohio Newport, Ky Newport, R. I.	118, 136 418, 789 121, 622 55, 385	6 63 182 56 11	1 24 4 1	1	1 9 3		6 2 19 12	1	1 36	3 14
Newburgh, N. Y. Newburyport, Mass. New Haven, Conn. New Orleans, La. New Philadelphia, Ohio	29, 893 15, 291 152, 275 377, 010 10, 133 32, 133	19 3 72 290	8 6 1	2	3 1		1		1 11 28	5 31
Newport, R. I. Newton, Mass New York, N. Y. Niagara Falls, N. Y. Norfolk, Va. North Adams, Mass.	30,585 44,345 5,737,492 38,466 91,148	23 2,092 20	3 278 1 4	25	21 .		3 103	1	2 238 2	1 161 1
North Adams, Mass. Northampton, Mass. North Attleboro, Mass North Braddock, Pa North Tonawanda, N. Y Norwich, Conn. Norwood, Ohio	1 22, 019 20, 006 11, 248 15, 684 14, 060 21, 923	29 4 4 1			1		1			1 1
Norwood, Ohio Oakland, Cal Oak Park, III Ogden, Utah Oil City, Pa Oklahoma City, Okla Olean, N. Y	23, 269 206, 405 27, 816 32, 343 20, 162 97, 588	6 161 15 9	3 1 1 1	i .			5 1 1		9	9
Olean, N. Y. Omaha, Nebr Orange, Conn Orange, N. J Oshkosh, Wis	16, 927 177, 777 14, 393 33, 636 36, 549	11 52 10 17 11	4 4 3		1 2 1		3 1		4	5 1 1

¹Population Apr. 15, 1910.

City Reports for Week Ended Jan. 11, 1919—Continued.

Piqua, Ohio	1 1 1 4 3 3 3 5 7 3 7 4 4 4 4 4 5 6 5 7 3 7 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Parkersburg, W. Va	1 1 4 3 3 S 73
Perth Amboy, N. J. 42, 645 7 2 1	3 8 73
Perth Amboy, N. J. 42, 648 7 2 1 1 2 49 1 1 1 735, 514 697 64 7 15 2 49 1 1 1 735, 514 697 64 7 15 2 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	73
Perth Amboy, N. J. 42, 648 7 2 1 1 2 49 1 1 1 735, 514 697 64 7 15 2 49 1 1 1 735, 514 697 64 7 15 2 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	73
Perth Amboy, N. J. 42, 648 7 2 1 1 2 49 1 1 1 735, 514 697 64 7 15 2 49 1 1 1 735, 514 697 64 7 15 2 49 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pittsburg, Ras. 18, 340	
Pittsburg, Ras. 18, 340	
Pittsburg, Ras. 18, 340	7
Portsmouth, Va 40,663 3 3 Pottsvi'lle, Pa 22,717 9 1 Poughkeepsie, N. Y. 30,786 10 3 3 Providence, R. I. 259,895 133 20 3 13 Quincy, Mass. 33,022 16 3 1 1 Quincy, Mass. 33,022 16 3 1 1 Raleigh, N. C. 20,274 19 1 1 1 Reading, Pa 111,607 6 50 2 2 2 Redlands, Cal. 14,573 5 6 50 2 2 2 6 6 50 2 2 2 6 6 8 1 2 2 2 2 6 6 50 2 2 2 8 1 4 2 2 2 2 2 2 2 3 1 4 2 2 2 3	
Portsmouth, Va. 40,663 3 3 Pottsville, Pa. 22,717 9 1 Poughkeepsie, N.Y. 30,786 10 3 Providence, R.I. 259,895 133 20 3 Quincy, III. 36,832 12 1 Quincy, Mass. 33,022 16 3 1 Raleigh, N.C. 20,274 19 1 Reading, Pa. 111,607 6 50 2 Redlands, Cal. 14,573 5 6 6 Richmond, Va. 158,702 82 3 1 2 2 Riverside, Cal. 20,496 82 3 1 4 2 2 Rochester, N.Y. 264,714 89 21 2 14 Rock Island, Ill. 29,452 8 Rocky Mount, N.C. 12,673 3 Rocky Mount, N.C. 12,	
Portsmoith, Va. 40,663 3 3 Pottsville, Pa 22,717 9 1 Poughkeepsie, N.Y. 30,786 10 3 3 Providence, R. I. 259,895 133 20 3 13 Quincy, Ill. 36,832 12 1 1 Quincy, Mass. 33,022 16 3 1 2 Raleigh, N. C. 20,274 19 1 1 2 2 Reading, Pa 111,607 6 50 2 2 2 2 2 2 2 2 3 1 4 2 2 2 2 2 3 1 4 2 2 2 2 3 1 4 2 2 2 2 3 1 4 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2 3 1 <td>· - </td>	· -
Portsmoith, Va. 40,663 3 3 Pottsville, Pa 22,717 9 1 Poughkeepsie, N.Y. 30,786 10 3 3 Providence, R. I. 259,895 133 20 3 13 Quincy, Ill. 36,832 12 1 1 Quincy, Mass. 33,022 16 3 1 2 Raleigh, N. C. 20,274 19 1 1 2 2 Reading, Pa 111,607 6 50 2 2 2 2 2 2 2 2 3 1 4 2 2 2 2 2 3 1 4 2 2 2 2 3 1 4 2 2 2 2 3 1 4 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2 3 1 <td></td>	
Portsmouth, Va. 40,663 3 3 Pottsville, Pa. 22,717 9 1 Poughkeepsie, N.Y. 30,786 10 3 Providence, R.I. 259,895 133 20 3 Quincy, Ill. 36,832 12 1 Quincy, Mass. 33,022 16 3 1 Raleigh, N. C. 20,274 19 1	
Portsmoith, Va. 40,663 3 3 Pottsville, Pa 22,717 9 1 Poughkeepsie, N.Y. 30,786 10 3 3 Providence, R. I. 259,895 133 20 3 13 Quincy, Ill. 36,832 12 1 1 Quincy, Mass. 33,022 16 3 1 2 Raleigh, N. C. 20,274 19 1 1 2 2 Reading, Pa 111,607 6 50 2 2 2 2 2 2 2 2 3 1 4 2 2 2 2 2 3 1 4 2 2 2 2 3 1 4 2 2 2 2 3 1 4 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2 3 1 <td>٠</td>	٠
Portsmoith, Va. 40,663 3 3 Pottsville, Pa 22,717 9 1 Poughkeepsie, N.Y. 30,786 10 3 3 Providence, R. I. 259,895 133 20 3 13 Quincy, Ill. 36,832 12 1 1 Quincy, Mass. 33,022 16 3 1 2 Raleigh, N. C. 20,274 19 1 1 2 2 Reading, Pa 111,607 6 50 2 2 2 2 2 2 2 2 3 1 4 2 2 2 2 2 3 1 4 2 2 2 2 3 1 4 2 2 2 2 3 1 4 2 2 2 2 2 2 4 4 2 2 2 2 2 2 2 2 3 1 <td> 1</td>	1
Portsmouth, Va. 40,663 3 3 Pottsville, Pa. 22,717 9 1 Poughkeepsie, N.Y. 30,786 10 3 Providence, R.I. 259,895 133 20 3 Quincy, Ill. 36,832 12 1 Quincy, Mass. 33,022 16 3 1 Raleigh, N. C. 20,274 19 1	i
Portsmouth, Va. 40,663 3 3 Pottsville, Pa. 22,717 9 1 Poughkeepsie, N.Y. 30,786 10 3 Providence, R.I. 259,895 133 20 3 Quincy, Ill. 36,832 12 1 Quincy, Mass. 33,022 16 3 1 Raleigh, N. C. 20,274 19 1	2
Quincy, Mass 33,022 16 3 1	3
Quincy, Mass 33,022 16 3 1	
Quincy, Mass. 33, 022 16 3 1	
Quincy, Mass. 33,022 16 3 1 Raleigh, N. C. 20,274 19 1 1 Rediands, Pa 111,607 6 50 2 Rediands, Cal. 14,573 5 6 50 2 Richmond, Va 158,702 82 3 1 4 2 2 Riverside, Cal. 20,496 8 2 2 2 Roanoke, Va 46,282 16 2 2 2 Rockester, N. Y 264,714 89 21 2 14 Rock Island, Ill. 29,452 8 8 2 14 Rock Mount, N. C. 12,673 3 8 1 Rutland, Vt 15,038 7 2 8 Sacramento, Cal. 68,981 49 5 2 2 St. Joseph, Mo 86,498 39 6 1 1 1 St. Louis, Mo 768,630 266 28 1 5 8 1 2 Salt Lake City, Utah 121,623 55 2 1 2 1 San Angelo, Tex 110,321 8 1 2 1 San	. 10
Rome, N. Y. 24,259 Rutland, Vt 15,038 7 Sacramento, Cal. 68,981 49 5 2 Saginaw, Mich. 56,469 30 3 2 St. Joseph, Mo. 86,498 39 6 1 1 St. Louis, Mo. 768,630 266 28 1 5 8 1 2 Salem, Mass. 49,346 3 3 3 3 Salt Lake City, Utah. 121,623 55 2 1 2 1 San Angelo, Tex 110,321 8 1 San Antonio, Tex 128,215 6 11 1 1 1	
Rome, N. Y. 24,259 Rutland, Vt 15,038 7 Sacramento, Cal. 68,981 49 5 2 Saginaw, Mich. 56,469 30 3 2 St. Joseph, Mo. 86,498 39 6 1 1 St. Louis, Mo. 768,630 266 28 1 5 8 1 2 Salem, Mass. 49,346 3 3 3 3 Salt Lake City, Utah. 121,623 55 2 1 2 1 San Angelo, Tex 110,321 8 1 San Antonio, Tex 128,215 6 11 1 1 1	2
Rome, N. Y. 24,259 Rutland, Vt 15,038 7 Sacramento, Cal. 68,981 49 5 2 Saginaw, Mich. 56,469 30 3 2 St. Joseph, Mo. 86,498 39 6 1 1 St. Louis, Mo. 768,630 266 28 1 5 8 1 2 Salem, Mass. 49,346 3 3 3 3 Salt Lake City, Utah. 121,623 55 2 1 2 1 San Angelo, Tex 110,321 8 1 San Antonio, Tex 128,215 6 11 1 1 1	
Rome, N. Y. 24, 259 Rutland, Vt 15, 038 7 Sacramento, Cal. 68, 981 49 5 2 Saginaw, Mich. 56, 469 30 3 2 St. Joseph, Mo. 86, 498 39 6 1 1 St. Louis, Mo. 768, 639 266 28 1 5 8 1 2 Salem, Mass. 49, 346 3 3 3 Salt Lake City, Utah. 121, 623 55 2 1 2 1 San Angelo, Tex 10, 321 8 1 San Angelo, Tex 122, 215 6 11 1 1 1	. 2
Rome, N. Y. 24,259 Rutland, Vt 15,038 7 Sacramento, Cal. 68,981 49 5 2 Saginaw, Mich. 56,469 30 3 2 St. Joseph, Mo. 86,498 39 6 1 1 St. Louis, Mo. 768,630 266 28 1 5 8 1 2 Salem, Mass. 49,346 3 3 3 3 Salt Lake City, Utah. 121,623 55 2 1 2 1 San Angelo, Tex 110,321 8 1 San Antonio, Tex 128,215 6 11 1 1 1	. 5
Rome, N. Y. 24,259 Rutland, Vt 15,038 7 Sacramento, Cal. 68,981 49 5 2 Saginaw, Mich. 56,469 30 3 2 St. Joseph, Mo. 86,498 39 6 1 1 St. Louis, Mo. 768,630 266 28 1 5 8 1 2 Salem, Mass. 49,346 3 3 3 3 Salt Lake City, Utah. 121,623 55 2 1 2 1 San Angelo, Tex 110,321 8 1 San Antonio, Tex 128,215 6 11 1 1 1	. 1
Rome, N. Y. 24,259 Rutland, Vt 15,038 Sacaramento, Cal. 68,981 49 5 Saginaw, Mich 56,469 30 3 2 2 St. Joseph, Mo 86,498 39 6 1 1 St. Louis, Mo 768,639 266 28 1 5 8 1 2 3 3 3 3 3 3 3 3 3 3 3 3 1 2 1 2 1 2 1 2 1 3 1 2 1 2 1 3 1 2 1 3 1 2 1 3 1 2 1 2 1 3 1 4 1 5 2 1 2 1 3 1 4 1 5 2 1 <td< td=""><td>2</td></td<>	2
Rome, N. Y	
Sacramento, Cal. 68, 981 49 5 2 Saginaw, Mich. 56, 469 30 3 2 St. Joseph, Mo. 86, 498 39 6 1 1 St. Louis, Mo. 768, 639 266 28 1 5 8 1 2 Salem, Mass. 49, 346 3 3 3 Salt Lake City, Utah. 121, 623 55 2 1 2 1 San Angelo, Tex. 110, 321 8 San Angelo, Tex. 128, 215 6 11 1 1 1	
Salt Lake City, Utah. 121,623 55 2 1 2 1 San Angelo, Tex. 10,321 8 San Antonio, Tex. 128,215 6 11 1 1 San Parterior Col. 128,215 6 11 1 1	· · · · · · :
Salt Lake City, Utah. 121,623 55 2 1 2 1 San Angelo, Tex. 10,321 8 San Antonio, Tex. 128,215 6 11 1 1 San Parterior Col. 128,215 6 11 1 1	. 1
Salt Lake City, Utah. 121,623 55 2 1 2 1 San Angelo, Tex. 10,321 8 San Antonio, Tex. 128,215 6 11 1 1	2
Salt Lake City, Utah. 121,623 55 2 1 2 1 San Angelo, Tex. 10,321 8 San Antonio, Tex. 128,215 6 11 1 1 San Parterior Col. 128,215 6 11 1 1	17
San Angelo, Tex 110, 321 8 1 1 San Angelo, Tex 128, 215 6 11 1 1 1 San Bernarqino, Cal 17, 616 12 San Diego, Cal 56, 412 32 1 Sandusky, Ohio 20, 226 6 1 San Francisco, Cal 471, 023 465 3 1 5 1 2 Santa Barbara, Cal 15, 360 16 Santa Cruz, Cal 15, 16 6	. 3 3 2 6
San Antonio, Tex 128,215 6 11 1 1 San Bernardino, Cal 17,616 12 1 1 1 San Diego, Cal 56,412 32 1 1 Sandusky, Ohio 20,226 6 1 1 San Francisco, Cal 471,023 465 3 1 5 1 20 Santa Barbara, Cal 15,360 16 16 1 16 16 Santa Cruz, Cal 15,160 6 1 1 1 1	2
San Bernardino, Cal. 17,616 12 San Diego, Cal. 56,412 32 1 Sandusky, Ohio. 20,226 6 San Francisco, Cal. 471,023 465 3 1 5 1 20 Santa Barbara, Cal. 15,360 16 16 16 16 Santa Cruz, Cal. 15,160 6 16 16	6
Sandusky, Ohio. 20,226 6 1 San Francisco, Cal 471,023 465 3 1 5 1 20 Santa Barbara, Cal 15,360 16 Santa Cruz, Cal 15,150 6	1 4
San Francisco, Cal. 471,023 465 3 1 5 1 2 Santa Barbara, Cal. 15,360 16 5 1 2 Santa Cruz, Cal. 15,150 6	•
Santa Barbara, Cal. 15, 360 16 Santa Cruz, Cal 15, 150 6	29
Danta Oruz, Car	
Saratoga Springs, N. Y. 13, 839 2 1	·····i
Sault Ste. Marie, Mich. 14, 130 4 1 1	
Schenectady, N. Y. 103,774 26 2 1 1 Seattle, Wash 366,445 7 3 13	3
Sharon, Pa. 19, 156 1	
Shenandoah, Pa. 29, 7:3 Sioux City, Iowa. 58, 568 4	
Clour Follo C Dole	
Somerville, Mass 88,618 54 5 1 7 1 3	5
South Bend, Ind. 70,967 17 23 1	
Southbridge, Mass. 14,465 4 Spartanburg, S. C. 21,985 10 1	
Spartanburg, S. C. 21,985 10 1 Springfield, Ill 62,623 32 3 1 2	
Springfield, Mass 108 668 43 5 1 0	1
	. 3
Springfield, Ohio. 52,296 24 32 2 Steelton, Pa. 15,759 2	3 1

¹ Population Apr. 15, 1910.

City Reports for Week Ended Jan. 11, 1919—Continued.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	asles.		rlet er.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Steubenville, Ohio Stockton, Cal Stockton, Cal Stockton, Cal Stuperior, Wis Syracuse, N. Y Tacoma, Wash. Taunton, Mass. Terre Haute, Ind Toledo, Ohio Topeka, Kans. Trenton, N. J Troy, N. Y Urbana, Ill. Utica, N. Y Vallejo, Cal Vancouver, Wash. Walla Walla, Wash Waltham, Mass Washington, D. C Waterbury, Conn Watertown, Mass Washington, N. C Waterbury, Conn Watertown, N. Y Watserbiet, N. Y Wausau, Wis Westfield, Mass West Hoboken, N. J West Orange, N. J Weymouth, Mass Wheeling, W. Va. White Plains, N. Y Wichita, Kans Wilkes-Barre, Pa Williamsport, Pa Williamsport, Pa Williamston, Del Winnone, Mass Winchester, Mass Winchester, Mass Winston-Salem, N. C	28, 259 36, 209 47, 167 158, 559 117, 446 36, 610 67, 361 202, 010 49, 538 113, 974 10, 146 89, 272 13, 803 13, 803 13, 803 13, 803 13, 803 13, 667 31, 011 15, 622 19, 666 18, 769 44, 386 19, 613 13, 964 14, 041 43, 657 78, 334 14, 041 44, 657 78, 334 14, 041 43, 657 78, 334 14, 041 43, 657 78, 334 14, 041 44, 657 78, 334 41, 041 43, 657 78, 334 41, 436 41, 18 411 53 21 222 777 200 58 58 58 3 300 13 3 300 13 5 5 5 10 15 5 5 9 7 7 7 7 25	1 1 2 2 3 3 1 1 5 5		1 1 1 1 1 1 1 1 2 2 1 1 1 3 3 1 1 1 1 1		2 1 9 8 1 1 3 3 1 1 2 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1	1	166 11 11 11 11 11 12 12	2 1 3 3 3 8 4 4 3 	
Winthrop, Mass. Woburn, Mass. Yonkers, N. Y York, Pa. Zanesville, Ohio.	13, 105 16, 076 103, 066 52, 770 31, 320	2 7 30	5 1 2		1		1		2	1 i

¹ Population Apr. 15, 1910.

FOREIGN.

BRAZIL.

Influenza-Sao Paulo.

From October 20 to November 17, 1918, influenza was reported present at Sao Paulo, Brazil, with an estimated weekly occurrence of about 2,000 fatalities.

CUBA.

Communicable Diseases-Habana.

Communicable diseases have been notified at Habana as follows:

	Dec. 11-	-20, 1918.	Dec. 21-	Remain- ing under	
Disease.	New cases.	Deaths.	New cases.	Deaths.	treatment Dec. 31, 1918.
DiphtheriaLeprosy	5	1	1		3
Malaria. Paratyphoid fever. Scarlet fever.	6		24 1		141
Typhoid fever		1	4		244

¹ From the interior 38.

Influenza-Habana-Regla.

During the period from December 11 to 31, 1918, 339 cases of influenza with 60 fatalities, and 39 cases of bronchopneumonia with 24 fatalities, were notified at Habana.

At Regla, during the same period, 60 cases of influenza were notified.

SAMOA.

Influenza.

Influenza has been reported present in Samoa, with more than 8,000 fatalities occurring among natives in western Samoa. On January 24, 1919, the epidemic was stated to be possibly concluded.

² From the interior 18.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER. Reports Received During Week Ended Jan. 31, 1919.1

CHOLERA.

Place.	Date.	Cases.	Deaths.	Re	marks.
Ceylon:					
Colombo	Nov. 17-30	4	5		
India:			l		
Calcutta	Nov. 3-16 Nov. 3-23		. 48		
Madras	NOV. 3-23	87	70		
RangoonJava:	Oct. 13-26	2	2		
West Java		1	1	Oct 31-Nov	6, 1918: Cases, 2
Batavia	Oct. 31-Nov. 6	21	11	deaths, 11.	0, 1910. Cases, a
Philippine Islands:		1		1	
Philippine Islands: Manila	Dec. 1-7	7	4	1	
Provinces					Cases, 174; death
Bataan	Dec. 1-7	12	111	135.	
Batangas	do	16	12	i	
Bulacan	do	1 27	23	·[
CaviteIloilo	do	19	14		
Laguna	do	2	ï		
Oriental Negros	do	2	2		
Pampanga	do	1	[1		
Pangasinan	do	74	58	ł	
Laguna Oriental Negros Pampanga Pangasinan Tayabas	do	12	7	1	
Union	do	8	6	1	
	PLA	GUE.			
	<u> </u>		i	ı	
Ceylon:		_		i	
Colombo	Oct. 27-Nov. 2	1	- 1	•	
India:	N 2 02	299	200		
Madras Presidency Rangoon	Nov. 3-23 Oct. 13-Nov. 2			ł	
itangoon	Oct. 13-NOV. 2	14	. 14		
Tealgoon.	SMAL		14		
	<u> </u>		14		
Canada:	<u> </u>		14		
Canada: Nova Scotia—	SMAL	LPOX.	14		
Canada: Nova Scotia— Halifax	SMAL Jan. 5-11	LPOX.	14	•	
Canada: Nova Scotia— HalifaxSydney	SMAL	LPOX.	14	*	
Canada: Nova Scotia— Halifax	SMAL Jan. 5-11	LPOX.	14		
Canada: Nova Scotia— Halifax	SMAL Jan. 5-11 Jan. 12-18	15 1 4	14		
Canada: Nova Scotia— Halifax Sydney Ontario— Ottawa Quebec— Monireal.	SMAL Jan. 5-11	15 1	14		2.3
Canada: Nova Scotia— Halifax	Jan. 5-11	15 1 4	14		
Canada: Nova Scotia— Halifax Sydney Ontario— Ottawa Quebec — Montreal Canal Zone: Colon	SMAL Jan. 5-11 Jan. 12-18	15 1 4			
Canada: Nova Scotia— Halifax Sydney Ontario— Ottawa Quebec— Montreal Canal Zone: Colon Dinas:	Jan. 5-11	15 1 4 9 1		Present	2.
Canada: Nova Scotia— Halifax Sydney Ontario— Ottawa Quebec— Monireal. Canal Zone: Colon Dina: Chungking	Jan. 5-11do	15 1 4 9 1	14	Present.	
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa. Quebec— Monireal. canal Zone: Colon China: Chungking. Nanking.	Jan. 5-11	15 1 4 9 1	14	Present.	
Canada: Nova Scotia— Halifax	Jan. 5-11	15 1 4 9 1	14		
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa. Quebec— Monireal. Canal Zone: Colon Dinas: Chungking. Nanking. India: Calcutta. Madras.	Jan. 5-11	15 1 4 9 1	1 17		2.1
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa. Quebec— Montreal. Canal Zone: Colon Chinas: Chungking Nanking Nanking Nanking Odia: Calcutta Madras Rangoon.	Jan. 5-11	15 1 4 9	1		
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa. Quebec— Montreal. Canal Zone: Colon. China: Chungking. Nanking. ndia: Calcutta. Madras. Rangoon. ava:	Jan. 5-11	15 1 4 9 1	1 17	Do.	
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa. Quebec— Montreal. Canal Zone: Colon Dhina: Chungking. Nanking. ndia: Calcutta. Madras. Rangoon.	Jan. 5-11	15 1 4 9 1	1 17 1	Do. Oct. 31-Nov.;	1918: Cases, 28;
Canada: Nova Scotia— Halifax Sydney Ontario— Ottawa Quebec— Monireal Canal Zone: Colon China: Chungking Nanking India: Calcutta Madras Rangoon Java: West Java Batavia	Jan. 5-11	15 1 4 9 1	1 17	Do.	1918: Cases, 28;
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa. Quebec— Montreal. Canal Zone: Colon Dhina: Chungking. Nanking. India: Calcutta. Madras. Rangoon Isava: West Java. Batavia. Mesopotamia:	Jan. 5-11	15 1 4 9 1 17 17	1 17 1 18	Do. Oct. 31-Nov.;	1918: Cases, 28;
Canada: Nova Scotia— Halifax Sydney Ontario— Ottawa Quebec— Montreal Canal Zone: Colon China: Chungking Nanking India: Calcutta Madras Rangoon ava: West Java Batavia Mesopotamia: Bagdad	Jan. 5-11	15 1 4 9 1	1 17 1	Do. Oct. 31-Nov.;	1918: Cases, 28;
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa. Quebec— Monireal. Canal Zone: Colon. China: Chungking. Nanking. India: Calcutta. Madras. Rangoon. Java: West Java. Batavia. Mesopotamia: Bagdad. Newfoundland:	Jan. 5-11	15 1 4 9 1 17 17	1 17 1 18	Do. Oct. 31-Nov.;	1918: Cases, 28;
Canada: Nova Scotia— Halifax Sydney Ontario— Ottawa Quebec— Monireal Canal Zone: Colon China: Chungking Nanking India: Calcutta Madras Rangoon Java: West Java Batavia Mesopotamia: Bagdad Sewfoundland: St. Johns. Outports—	SMAL Jan. 5-11	15 1 4 9 1 1 17 1 18 84 1	1 17 1 18	Do. Oct. 31-Nov.;	1918: Cases, 28;
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa. Quebec— Monireal. Canal Zone: Colon Dina: Chungking. Nanking. India: Calcutta. Madras. Rangoon Sava: West Java. Batavia. Mesopotamia: Bagdad Newfoundland: St. Johns. Outports— Avondale	Jan. 5-11	15 1 4 9 1 17 1 18 84 1	1 17 1 18	Do. Oct. 31-Nov.;	1918: Cases, 28;
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa Quebec— Monireal. Canal Zone: Colon China: Chungking. Nanking. ndia: Calcutta. Madras. Rangoon sava: West Java. Batavia. Mesopotamia: Bagdad. Newfoundland: St. Johns. Outports— Avondale. Bay of Islands.	SMAL Jan. 5-11do Jan. 12-18do Dec. 29-Jan. 4 Nov. 17-30 Dec. 1-7 Nov. 3-9 Nov. 3-23 Oct. 20-26 Oct. 19-Nov. 15 Jan. 4-10 do Jan. 11-17	15 1 4 9 1 1 17 1 18 84 1	1 17 1 18	Do. Oct. 31-Nov.;	
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa Quebec— Monireal. Canal Zone: Colon China: Chungking. Nanking. Nanking. ndia: Calcutta. Madras. Rangoon. lava: West Java. Batavia. Mesopotamia: Bagdad. Newfoundland: St. Johns. Outports— Avondale. Bav of Islands.	Jan. 5-11	15 1 4 9 1 17 1 18 84 1	1 17 1 18	Do. Oct. 31-Nov.;	
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa Quebec— Monireal. Canal Zone: Colon China: Chungking. Nanking. ndia: Calcutta. Madras. Rangoon sava: West Java. Batavia. Mesopotamia: Bagdad. Newfoundland: St. Johns. Outports— Avondale Bay of Islands.	SMAL Jan. 5-11do Jan. 12-18do Dec. 29-Jan. 4 Nov. 17-30 Dec. 1-7 Nov. 3-9 Nov. 3-23 Oct. 20-26 Oct. 19-Nov. 15 Jan. 4-10 do Jan. 11-17	15 1 4 9 1 1 17 1 18 84 1	1 17 1 18 24	Do. Oct. 31-Nov.;	
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa Quebec— Monireal. Canal Zone: Colon China: Chungking. Nanking. ndia: Calcutta. Madras. Rangoon sava: West Java. Batavia. Mesopotamia: Bagdad. Newfoundland: St. Johns. Outports— Avondale Bay of Islands.	SMAL Jan. 5-11	15 1 4 9 1 1 17 1 18 84 1	1 17 1 18 24	Do. Oct. 31-Nov.;	e de la companya de l
Canada: Nova Scotia— Halifax. Sydney. Ontario— Ottawa Quebec— Monireal. Canal Zone: Colon China: Chungking. Nanking. ndia: Calcutta. Madras. Rangoon sava: West Java. Batavia. Mesopotamia: Bagdad. Newfoundland: St. Johns. Outports— Avondale Bay of Islands.	SMAL Jan. 5-11	15 1 4 9 1 1 17 1 18 84 1	1 17 1 18 24	Do. Oct. 31-Nov.;	

From medical officers of the Public Health Service, American consuls, and other sources. 97583°—19——5

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 28, 1918, to Jan. 24, 1919.¹ CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay		26	15	
Calcutta			19	
Madras		36	18	
Rangoon	Oct. 5-12		1	
Indo-China: Anam	Aug. 1-31	5	5	
Cambodia		98	71	
Cochin-China		110	89	
Saigon		18	12	
Tonkin		ı		
Java:		-		
East Java	.			Oct. 7-21, 1918: Cases, 109; death
Surabaya (district)	Oct. 7-28	92	75	94.
Mid-Java			l	Sept. 25-Oct. 16, 1918: Cases
Samarang	Sept. 25-Oct. 16	120	111	1,389; deaths, 867.
West Java				Oct. 2-23, 1918: Cases, 190; deaths
Batavia		140	. 84	112.
Mesopotamia:			1	
Bagdad	Oct. 11-18	8		
Philippine Islands:				
Manila	Nov. 3-9	28	16	
Do		18	12	
Provinces				Nov. 2-9, 1918: Cases, 511: deaths
Bataan		19	14	417. Nov. 17-30, 1918: Cases
Batangas	Nov. 2-9	156	[41	404; deaths, 288.
Do	Nov. 17-30	43	31	
Bohol	Nov. 2-9	19	17	
. Po		. 10	4	
Bulacan		5 6	6 5	
Do		38	28	
Cavite		43	25	
Do		9	6	
Do		6	5	
Laguna		2	ž	
Mindoro		4	5	
Misamis		6	5	
Do		18	5	
Oriental Negros	Nov. 2-9.	20	8	
Po		4	4	
Pamranca		2	2	
Pangasipan		:35	192	
Do			112	
Rizal		3	1	
Do	Nov. 24-30		5	
Sorsogon	Nov. 17-23	. 8	4	
Tayabas	Nov. 2-9	7	4	İ
Do	Nov. 17-30	16	9	
	Nov. 2–9	. 7	5	·
	m	0.000	1 0	•
l'etrograd				In civil bossitals In: lite-
Ро	July 17-Aug. 21	2.943	1,455	hospitals, July 5-Aug. 21, 1918 Cases, 884; deaths, 783.
	Nov. 17-30 Nov. 2-9 To July 16 July 17-Aug. 21	16 7 3,388 2.943	1,054 1,455	In civil hospitals. In mi hospitals, July 5-Aug. 21 Cases, 884; deaths, 783.

PLAGUE.

China: Amoy Hongkong Do Nanking Écuador:			
			Jan. 1-Nov. 21, 1918: Cases, 357;
1.8.1 P	i		deaths, 153.

¹ From medical officers of the Public Health Service, American consuls, and other sources. For reports received from June 29 to Dec. 27, 1918, see Public Health Reports for Dec. 27, 1918. The tables of epidemic diseases are terminated semiannually and new tables begun.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 28, 1918, to Jan. 24, 1919—Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	F	temarks.
Tadia				Gomt 00 37	0 1010. C
IndiaBombay	Aug 19 Nov 0		23	Sept. 23-No	ov. 9, 1918: Cases, ths, 11,488.
Karachi	Aug. 18-Nov. 9 Oct. 19-26	34 16	16	14,554; des	uns, 11,488.
Madras Presidency	Oct. 13-26	206	135	l .	
Rangoon	Oct. 5-12	200	22	l	
Indo-China:	Oct. 3-12	22	22	1 .	
Anam.	Aug. 1-31	15	10		
Cambodia	do		23		
Cochin-China.	do	14	11		
Saigon	Oct. 7-Nov. 3	3	1		
Java:			•	1	
East Java		1		Oct. 7-21 19	18: Cases, 17; deaths,
Surabaya (district)	Oct. 7-21	15	15	17.	ice cubob, ir, donore,
Mid-Java					. 16, 1918: Cases, 14;
Samarang	Sept. 25-Oct. 16	6	6	deaths. 14.	. 10, 1101 Cabac, 11,
Siam:		_	1		
Bangkok	Sept. 21-28	4	. 3.	}	
Ďo	Oct. 5-12	2	2	I	5.5
Venezuela:		1 .	1		
Caracas	Dec. 30	1	1	l	
	<u> </u>	l			
	SMALI	LPOX.			
	1	ī ,	Ĭ	1	
Algeria:	_	1			
Algiers	Oct. 1-31	1		ĺ	
Canada:		į.			
Now Brunswick—		ľ	1	1	
St. John	Nov. 8-14	3			
Campbellton	Dec. 22-28	1		ł	
Nova Scotia—			1		<u>.</u> . •
Bear River	Dec. 29-Jan 4			Present.	15
Digby	do			Do.	
Halifax	Dec. 7-28	10			
Middleton	Dec. 29-Jan. 4			Do.	The second second
Quebec					
Montreal	Nov. 24-Dec. 21	1			7,744
Quebec	Dec. 15-21	1			
Do	Dec. 29-Jan. 4	1			4 1 4
Canal Zone:	75 17.01				× 1
Colon	Dec. 15-21	1			
China:	0.4 10 37 00		1		and the state of t
Amoy	Oct. 13-Nov. 26	• • • • • • • •		Do.	
Canton.	Nov. 17-23	• • • • • • •		Do.	1 1 7
Chungking	Nov. 10-16	• • • • • • •		Do.	
Denmark:	M 0.00	_			
Copenhagen	Nov. 9-23	5	• • • • • • • • • • • • • • • • • • • •		
India:	A 10 37 A		ا ۽		
BombayCalcutta	Aug. 18-Nov. 9	12	3		
Karachi	Sept. 29-Nov. 2		5		
Madras	Sept. 29-Oct. 5	10	1		
Indo-China:	Oct. 5-26	12	- 8		
	Ang 1.21	29	. 8		
Cambodia	Aug. 1-31do	78	40		
	do	97	27		
Saigon	Oct. 7-20	13	3		
Tonkin	Aug. 1-31	5	ا د ا		
Japan:		, ,			•
Kobe	Oct. 26-Dec. 7	70	14		
Java:			-11		
East Java				Oct. 7-21, 19	18: Cases, 6
Surabava (district)	Oct. 7-28	7		-50 22, 10	20, 02000, 0,
Mid-Java				Sept. 25-Oct.	. 16, 1918: Cases, 55.
West Java				Oct. 2-23, 191	8: Cases, 313; deaths,
Batavia	Oct. 2-23	73	58	101.	,,,
Mesopotamia:			,		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Bagdad	Oct. 11-18	11			4.4
Mexico:					1.00

Mexico:
Ciudad Juarez. Nov. 24-30.....

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 28, 1918, to Jan. 24, 1919—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Newfoundland:				
St. Johns	Dec. 6-20	4		
Do	Dec. 28-Jan. 3	i		1
Outports-				
Avondale	Dec. 28-Jan. 3	1	1	i
Blaine Harbor	Dec. 14-20	2		
Bay Roberts	Dec. 21-27	1		'
Bryants Cove	Dec. 7-13	3		l
Burin	do	4		
Coleys Point	Dec. 14-20	1		
Musgrave Harbor	Dec. 7-13	.4		Di
Paradise	do	60		Placentia Bay.
hilippine Islands:	Nov. 2-9	2	2	
ortugal:	NOV. 2-3	•		
Lisbon	Nov. 16-30	463		
pain:	1101. 10-00	300		
Cadiz	Oct. 1-31		3	
Madrid	Sept. 1-Oct. 31		153	
Valencia	Nov. 10-Dec. 7	15	4	_
straits Settlements:	i .		- 1	•
Penang.	Oct. 6-12	1		
nion of South Airica:	! !		i i	
Cape of Good Hope State-				·
Cape Town	Aug. 1-30	1		
	mynyyra			
	TYPHUS	FEVER	·	
lgeria:	•			er er
Algiers	Nov. 1-30		T	
Brazi':			_	
Ceara	Sept. 14-21	1		
'olombia:	-			
Barranquilla	Nov. 8-Dec. 28		3	
Egypt: Alexandria	0			`•
Alexandria	Oct. 14-Nov. 25	. 63	. 39	
Preece:	0		- 10	
Saloniki	Sept. 29-Oct. 19	• • • • • • •	19	
apan: Nagasaki	Nov. 10-Dec. 1	4	2	
ava:	NOV. 10-Dec. 1	3	-	
- East Java		-		Oct. 7-21, 1918: Cases, 5.
Surabaya	Oct. 7-21	4		Oct. 7-21, 1915. Cases, 5.
Mid-Java	000.0 22	.		Sept. 25-Oct. 16, 1918; Cases, 8,
West Java				Sept. 25-Oct. 16, 1918: Cases, 8. Oct. 2-23: Cases, 31; deaths, 6.
Batavia	Oct. 2-23	15	4	
iiberia:	1			
Vladi vostok	Sept. 1-Nov. 30	16		
spain:			/ _	•
Huelva	Oct. 1-31		2	•
Inion of South Africa:	ا مند ما		1	
Port Elizabeth	Sept. 14-28	•••••	•••••	Present among natives in seven interior towns.
•	YELLOW	PEVE	.	· · · · · · · · · · · · · · · · · · ·
	AETTOM	PEVE	.	
Brazil:			.	
Pernambuco	YELLOW Oct. 1-15	PEVEI	L	
Pernambuco	Oct. 1-15	1		
Pernambuco Ccuador: Babahoyo	Oct. 1-15	1		
Pernambuco	Oct. 1-15	1 1 1	1	
Pernambuco	Oct. 1-15 Nov. 1-30 Nov. 1-15 Nov. 1-30	1 1 1 77		
Pernambuco	Oct. 1-15 Nov. 1-30 Nov. 1-15 Nov. 1-90 Nov. 1-15	1 1 1 77 1	1	
Pernambuco	Oct. 1-15 Nov. 1-30 Nov. 1-15 Nov. 1-30	1 1 1 77	1	
Pernambuco Ccuador: Babahoyo Duran Guaysquil Milagro Punta de Piedra alvador:	Oct. 1-15	1 1 1 77 1	1	
Pernambuco	Oct. 1-15 Nov. 1-30 Nov. 1-15 Nov. 1-90 Nov. 1-15	1 1 1 77 1	1	